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of the South and Southwest as the Nation's Greatest Material Asset

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BE READY FOR PROSPERITY.

COMPTROLLER of the Currency Crissinger carried to the Florida Bankers Association, April 22, a message of hope and assurance. "We are indeed around the corner and are moving steadily, strongly, surely and straightly forward on the road to more prosperous conditions. The business outlook of the whole country is brighter and more encouraging than it has been for the past two years. We are well rid of business and industrial froth, and in a position to go forward on sound and substantial lines. We are ready to start, to be off, to be doing. Business, industry, agriculture and commerce need only the awakening of American pluck, courage and initiative to insure the reestablishment of prosperity."

Probably improving conditions are as much due to Mr. Crissinger as to any other man. He was not fairly in the office before he began applying to national finance the principles which he had found successful in small-town banking. With so much deflating going on, he thought the rediscount rate might as well be deflated also, and he brought it about. Having made business again possible in the United States, Mr. Crissinger now expects American initiative to do the rest. He need have no fear. What the average business man asks is a fighting chance and that is all he needs.

The way to get in on the ground floor of returning prosperity is to get in early. There will not be so much room on the band wagon when it is entirely out of the woods. Those who go after business are going to get it. Be ready when the times cry: "Forward, March."

IS RIGID PROHIBITION OF THE LIQUOR INTERESTS FEASIBLE AND WISE?

THE MANUFACTURERS RECORD will shortly publish "The Prohibition Question Viewed From the Economic and Moral Standpoint"—which will, we believe, be the most important publication ever issued in this or any other country on this vital issue.

This symposium on Prohibition will comprise letters from leading men of affairs, manufacturers, bankers, college and university presidents, physicians and others presenting more strongly than has ever been done before, we believe, the benefits of Prohibition, and telling why the Prohibition laws should be more rigidly enforced. These letters come from men of national standing, men known in every walk of life, in the great business interests and professions. They are in answer to a questionnaire which we recently sent to about 1500 manufacturers, bankers, college presidents and others as to whether in their opinion Prohibition had proven a success, and what has been the result in their own experience and among the men in their employ.

About 90 per cent of these letters are in favor of Prohibition based on what has already been accomplished, while only about 10 per cent either question the wisdom of Prohibition, or desire the introduction of light wines and beers. This 10 per cent is so insignificant as to be valueless to the liquor interests. The other 90 per cent have written letters of such strength and virility, such insistence upon the maintenance of law and order and the upholding of Prohibition as to make this proposed publication the most important work that the MANUFACTURERS RECORD has ever done. We confess that we have not only been gratified beyond expression, but to some extent surprised by the unanimity of the letters in commendation of the good effects of Prohibition; for with scarcely 10 per cent or less unfavorable it might be broadly said that the whole symposium is well nigh unanimous.

The men who have written these letters will be recognized by every reader in the country as men of position, men of commanding influence as employers of labor, as physicians of the highest standing, as educators, and the heads of great colleges and universities, men whose word will carry weight throughout the country. Their statements are unanswerable. Their testimony should forever settle the question of Prohibition, and forever answer every argument of the liquor interests and the violators of law who are seeking to break down Prohibition. The Prohibition question is discussed in these letters both from the economic and the

moral standpoint, from its influence in bettering conditions of laborers and their families, and from the moral advancement which has come as a result of Prohibition.

As we have from day to day been going over these letters we have been more and more profoundly impressed with the tremendous influence which they will have in largely shaping the public sentiment in this and all other countries throughout the world against the liquor traffic and the bootlegger, and the bootlegger's co-partner in criminality, the man who buys of the bootlegger and thus becomes a participant in the bootlegger's criminality to the same extent that the receiver of stolen goods becomes equal in criminality with the thief who did the stealing. This publication entitled "The Prohibition Question Viewed From the Economic and Moral Standpoint" should be read by every American. It will furnish facts for thousands of addresses and sermons and be invaluable to every believer in Prohibition. The price will be 50 cents a copy. We trust every reader of the MANUFACTURERS RECORD will not only buy a copy for his own use but many copies for distribution to others.

GOVERNOR HARDING AND THE RESERVE BOARD

MUCH significance is to be attached to the criticisms of the Federal Reserve Board made by Mr. Charles de B. Claiborne, in the interview published in the MANUFACTURERS RECORD last week. Mr. Claiborne is vice-president of the Whitney-Central National Bank, of New Orleans, which has \$50,000,000 in deposits, and is the largest national bank in assets in the South. He is also chairman of the Committee of Five of the American Bankers Association on Exchange, and chairman of the Committee of Seven of the State Bankers section of the American Bankers Association. He has long been an outspoken critic of the practices of the Federal Reserve Board, which he characterizes as "an autocratic, tyrannical, intimidating organization," and he points out specific changes which should be made in the practices and personnel of the Board.

The reference of Mr. Claiborne to appointment of a new president of the Board in August is made in the light of a positive statement made to two or more Southern bankers that he (Harding) will not be a candidate for reappointment when his term expires on August 1. That is certainly a thing devoutly to be wished for. But if President Harding were unwise enough to renominate Gov. Harding for the Reserve Board, we have not the slightest idea that he would be confirmed, for the fight would then open in the Senate in dead earnest.

RAILROAD DIVIDENDS, WAGES AND RATES AS RELATED TO BUSINESS CONDITIONS.

THERE is substantial food for thought on the part of railroad workers in the annual report of the Pennsylvania Railroad Company where President Samuel Rea says to the stockholders:

"Certain wages and working conditions are yet much out of line with those in effect prior to the war, and further adjustments are essential to reduce the cost of transportation, adequately maintain the property and enable the company to pay a fair return to the stockholders. The employees shared in the high wages of the war period, but the stockholders' dividends were not increased in that period.

"Since the war their dividends have been reduced, and your directors feel that an obligation rests on the management to restore the 6 per cent dividend rate as soon as it can be done without detriment to the maintenance of the

property. Capital is just as much entitled to a fair return as labor is to receive fair wages, and no more salutary step could be taken to restore public confidence and improve existing conditions than for your company to be able to resume its 6 per cent dividends and reduce traffic rates as the result of increasing economical operation, secured largely through adjustments in wages and working conditions."

This is a strong reminder of the fact that our railroad employees, with few exceptions, vigorously oppose any efforts on the part of the companies to reduce wages in proportion to the reduced earnings of the roads. Their point of view, established by the labor union leaders, is that wages must go up but never come down; they resist with all their power the operation of economic forces which, left alone, would equalize and re-establish matters just as water finds its level; they are always willing and anxious to share in the fruits of prosperity, but are never ready to participate in the results of depression which they would have their employers, the stockholders, bear alone.

It is well known that the shares of this particular railroad company are very widely distributed and that there are thousands of individuals, very many of them women, who hold but a few shares each, representing savings which they have invested often after much self denial and economy, so it cannot be said that these stockholders are generally capitalists in the usual meaning of that word and it is to these people that the president of the company is talking when he says that the directors feel an obligation to raise the dividend from the present 4 per cent to the long-established rate of 6 per cent.

President Rea, it will also be remarked, recognizes the need for reducing traffic rates and the beneficial effect that such a move would have in the way of restoring public confidence and improving conditions, but, referring to the hearings before the Interstate Commerce Commission on freight rates, he says:

"The Commission will be impelled to consider not only the effect of rate reductions on the earnings of the carrier companies, but also the effect on their ability to finance new equipment and facilities which, if neglected, will cost the public many times the savings that reduced rates will produce; because inadequate facilities mean delayed service, restricted business, and loss of profits to the shippers."

In spite of this, however, President Rea appears to see clearly the necessity of reducing freight rates, a clarity of vision which some of his fellow executives on other roads do not apparently possess. His aim is in the right direction, but it does not necessarily follow that wages must be first cut before the rates can be pared down. If the railroads had more nerve and would make rate reductions at once business improvement would proceed more rapidly and a return to normal conditions would be accomplished with less delay.

WHAT HAPPENED AFTER THE CIVIL WAR.

M. R. E. A. PARKER, of Jacksonville, Fla., in a letter to the MANUFACTURERS RECORD, says:

"I well remember that, when a boy, after the Civil War, when the banks did not have the power they now have, and Congress repeatedly refused to deflate the honest old green back dollar, the prosperity of the country was enjoyed by every farmer and business man of the South; every negro had money in his pockets; yet despite this prosperity people did not fold their arms and refuse to work; business went on with a rush. The fields were cultivated with plenty of labor; every one enjoyed life and prosperity until the great crime of 1873, which precipitated the first panic the country experienced after the Civil War."

Better a merchant marine with a subsidy than no merchant marine without.

Protection Will Be National Policy — Let the South Participate in Its Benefits.

THE South is face to face today with a definite economic crisis. The magnificence of her resources would carry the section through, in some sort of prosperity, under any economic system, as has been demonstrated conclusively since the Civil War, but if the South is to fulfill her destiny and achieve her place as the richest part of the Union, the time has come to make a high decision. There is a great gulf between merely getting along and the enjoyment of real prosperity.

Assuming that free trade was sound policy for the South under a system of great plantations, worked by slaves, the Emancipation Proclamation changed utterly the fundamental conditions. Appomattox ended a great war; likewise made obsolete a traditional economic policy. The one fact has been recognized; the other has not. Through half a century of privations, cotton producers and agriculturalists have been struggling to build prosperity on an economic error. Free trade may have been of advantage with free labor, but to keep trade free when labor is not free is to court disaster, as experience has so amply demonstrated.

The great war arbitrarily erected trade barriers and the South bloomed as it had never bloomed before. The schools became filled to overflowing. Profits transmuted humble abodes into habitable houses. The whole South leaped forward. But the war ended and the low-cost sections of the world began to come back into production. This, and deflation, has been steadily throwing Southern agriculture back into the sweat that knows no surcease. Negro labor has been driven again, in some cases, to such wages as 75 cents a day for ploughmen. Think of it! And that is what cotton at present prices means. The world, if we permit it, can steal the labor of the black man in his millions and get its cotton for a song, but can this country as a whole, and can the South in particular, justify the national conscience in allowing such exploitation of human beings and citizens? Unless the millions of black men are prosperous, the South cannot be prosperous; and the black men cannot be prosperous on a wage scale that is little less than legalized criminality.

There is to be a protective tariff, whether the South wants it or not. The dominant party has been commissioned by the electorate to enact protective tariff legislation. The common sense of the nation has spoken. So only can our form of civilization, in the present status of affairs, be maintained. The South may think it a bad policy, but it is going to be national policy, nevertheless. We believe in protection as we believe in the rising of the sun, but this, we think, is indisputable: Protection is ruinous to the South if all the rest of the country has protection and it has none. To sell in a free market and buy in a protected market is to be short-changed at both ends. There is no doubt of that. It is clear, then, that since protective legislation is assured in any case, the objective of Southern statesmanship should be a fair law—a law giving to the South just as much protection as any other section secures.

But Southern statesmanship, we understand, has decided to go to the cemeteries for its inspiration. It would be an entirely reasonable and honorable thing for Southern Senators, as each disputed schedule was voted on, to insist that in that schedule the South be given adequate protection. But the contrary course, we are told, has been determined on. To illustrate, when it will be in the power of Southern Senators to insist that where the manufactured article is given protection, the raw material must also be protected, the Southern Senators will so vote that the manufactured article

will get protection and the raw material none. They will see a law in process of enactment that gives the cotton manufacturer protection and yet they will vote that cotton itself, which is the finished product of the farmer, shall have no protection. It has been said that the purpose of this course is to make the South so suffer under a protective system by which it alone is not protected that the section will become even more fixed in its belief that protection is essentially ruinous. We do not believe that any set of men would condemn their neighbors to hardship for such a purpose. We cannot believe that Senators would deliberately reject prosperity for their constituents in an effort to justify their own economic heresies.

The issue is most plainly put in the case of vegetable oils. Cotton seed is the South's greatest by-product and peanuts alone have fed many families whose cotton fed the boll weevil. The emergency tariff demonstrably raised the price on cotton seed at least \$8 a ton and on peanuts \$18 a ton. The Senate tariff bill apparently gives adequate protection to the vegetable oil industry, but this ostensible protection is entirely destroyed by a drawback provision to the effect that all duty paid on imported oils shall be refunded if it is shown that the oil is used for inedible purposes. Also, there is no duty on dried copra, which alone would neutralize the benefit of any other protection.

"Well," say the soap-makers and manufacturers of lard substitutes who want free dried copra, "we have to sell in foreign markets and must get our oils cheap." It sounds fine until we notice that these same soap-makers have obtained in the Senate bill a duty of 5 per cent on laundry soaps and as high as 50 per cent on toilet soaps! Here these men come before the public and demand, as is right, that their soap be protected, but when their demand is heeded they have the impertinence to cry, "Fine, but do not let the producer of oil materials have any protection." They want to make the farmer sell his oil-bearing material to them at the Oriental cost and they sell it back to him in the form of soap with a protective differential added!

A prominent member of the Ways and Means Committee recently said, in substance: "I have a supreme contempt for men who come before this committee and ask for protection for their product and then exert every influence they possess to prevent protection for the farmer who provides them with their raw material. What is their raw material is the farmer's finished product. God save this nation if it be possible that selfishness of that sort thrive and if the Congress enact legislation so nefarious as that."

The issue, therefore, is plainly joined. The South is the great producer of the raw materials from which vegetable oils are obtained. The soap-makers come before the Senate and say: "Give us protection, but do not give it to the farmer whose finished product we use. Save us and we care not if you destroy him." On that issue Southern Senators will be asked to vote. They will have to stand up and say whether they are for their own constituents or for the great soap interests. They will have to put it down in the record whether to legislate profits out of or into the pockets of the producers of vegetable oil materials. Nor will it do for them to vote also against the duty on soap. That would have the appearance of subterfuge, for the political situation lies in such a position that they know there will be protection for soap without their votes, whereas protection for the raw material is dependent on them. Let the South watch and note what is done.

The 25 Republican Senators who have formed a Tariff

Bloc to insist that agriculture be protected adequately under the new bill are more than friendly to the South. They have exhibited an inclination to be helpful. The Bloc met with representatives of the Southern Tariff Association and agreed to do all possible to see that the South got a square deal. Senator Gooding was especially solicitous and Mr. Fordney, Chairman of the House Ways and Means Committee, stated that he would regard it as a national disaster if the bill were not national in scope, adequately protecting all sections. He did not want to see a law that would bring prosperity to all other sections and leave the South out in the rain.

The South alone can defeat Southern interests. She has the votes to make the new tariff law a blessing and a God-send to the South. She has the votes to establish a definite protective agricultural policy for the nation that will cut the heart out of Oriental competition and take from the shoulders of the Southern farmer the awful burden of having to compete with coolie labor in Egypt and India. She has the votes with which to nationalize the tariff law so that its beneficent effects will fall on all sections alike. She has the situation in her own hands. And that is true even if every Democratic vote in the Senate is finally cast against the bill as a whole. The votes are needed on the particular schedules as they come up one by one. Even the most incorrigible of free traders can fairly say, "I am against protection. But if we are going to have it, anyhow, my section must have the same protection that any other section gets. I differ with you on the principle, but in its application there can be but one attitude that is fair to my constituents." There is no moral lapse in that, but there is plenty of common sense.

It is a new world and for a century progress will be in the saddle. The whole earth is to be developed and capitalized for the comfort of man. The forward nations must preserve their establishments and standards intact while they bring up to their own level the backward countries. We must have a prosperous agriculture and we must have it under conditions which permit the agriculturalist to enjoy the comforts other inhabitants have. Our farmers cannot live in huts. They must have decent houses, good schools, churches, roads, electric lights, respectable clothes and all the paraphernalia of civilization. They cannot support such an establishment and compete successfully in a free market with a competitor who lives in a hut and is content with a cupful of rice a day as food. The tremendous markets we have builded in our own cities belong of right first to our own people. They must be protected in their enjoyment of them. Be not confused by the textbooks and the orators. No words can overcome an economic fact. Not all the theory in all the libraries can overcome the simple truth that it costs now more to produce farm products in the United States than it does in poverty-stricken countries. That fact is a brick wall against which theories will ever break their heads. Let us recognize the fact, because it is a fact, and so formulate national policy that agriculture in this nation shall thrive.

We have every sympathy for the coolie who labors for a few cents a week in the cotton fields of India, but it is our solemn duty to see to it that our own farm labor, in our own country, is not reduced to the same extremity. We hope to see at least some Southern Senators tear loose from the jail of tradition, stand flat-footed and vote as sound business judgment and patriotism demand. We should like to see the South's slogan changed from "A tariff for revenue only" to "A tariff for prosperity only." It is not a crime to be prosperous, but persistence in an economic blunder that is an invitation to general poverty has results equally disastrous with those that follow crime.

THINGS THAT MANY BANKERS AND OTHERS NEED TO LEARN.

PRESIDENT T. OREGON LAWTON of the Southeastern Life Insurance Co., of Greenville, S. C., was recently asked by one of the big banking institutions of the country for his opinion in regard to present conditions in the South and a forecast of what will take place in Southern work during the next six months. In reply to this Mr. Lawton wrote a letter which appears in a monthly leaflet issued by his insurance company, in the course of which he said:

"We operate throughout this State, and through the medium of our policyholders have, we think, a very clear index into conditions here. Our policy loans are normal again. Our income is picking up with each week. There are generally clouds on the horizon, but it is fair overhead. We are looking up. In my own opinion trading will become active again whenever our good friends, the bankers, get back to normal. They seem to be about the only ones left now who need to get over it."

Mr. Lawton has fairly stated the case. The bankers need to get over it, and to get over it completely, for they are doing a great deal to retard the safe revival of business in the country. The bankers as a whole have been so impressed with the teachings of the Federal Reserve System to deflate, and deflate, and deflate, and cut down credits and call in loans, that they apparently are afraid to do good, legitimate banking business for which they have stood in times past.

The only safe way for the liquidation of the indebtedness of the people of this country is to permit them so to increase their production and prosperity as to be able to pay their loans out of profits. To force the payment of a loan merely because a bank can do so, regardless of the effect that it may have upon a man's business, may in the end prove a very unwise move on the part of the banker.

There is an ever widening gulf between the bankers and the people of the country, and the bankers do not seem to realize that their policy as now pursued is deepening and widening this gulf, and that in the end the bankers will be the sufferers.

There has never been a time in the history of this country when its banking people from the highest to the lowest needed to study more carefully the spirit that is abroad in the land, and at the same time to come in closer and more intimate touch with their own depositors and borrowers. The bankers that make a false step today in forcing the payment of loans, or in little things which serve only to irritate a depositor or a borrower, will eventually find that they have sown the seed which will ripen into a harvest not of wheat, but of tares and thistles, to their own injury.

The moral responsibility of the bankers to the community is exceedingly great. They gather together the money of the depositors and make their profit out of trading in that money. They are the biggest borrowers in the country, for the actual capital which they invest would go a very small way toward paying the running expenses of their institution, and the profit must be made by borrowing from depositors and lending that money out, sometimes to the same depositors and sometimes to others.

The man who borrows from a bank on a fair margin of security is doing the bank a favor. Without him bankers could earn no profit, and he is entitled to just as much courtesy and consideration as is given to the depositor from whom the bank borrows its deposit.

The bank is the only institution that boasts of the amount of its borrowings when it boasts of the extent of its deposits.

When a bank borrows from a depositor it treats him with distinguished consideration, but when a depositor borrows from a bank every detail of his business is scrutinized, he is often made to sit on the mourners' bench waiting his turn as to whether he can get the money or not, and many bankers

cannot make or decline a loan without making the borrower feel that in some way he is under obligation to them. As a matter of fact, he is under less obligation, if his security is good, than the banker is under obligation to the depositor from whom he borrows. In both cases there is a mutuality of interest where consideration and courtesy are essential for successful business.

The banker who sits in his office and issues his written command to his borrowers to pay is making a mistake. In many cases he would find it far wiser, and in the end far more profitable to call on the borrower and discuss the matter, and see whether payment in whole or in part can be made.

The pre-eminent success of the late Milton H. Smith, president of the Louisville & Nashville Railroad, in getting the bulk of the iron and coal trade freight of Birmingham, was due to his method of doing business. It was once said that Samuel Spencer while president of the Southern Railway was advised to secure the services of Mr. Smith for the operation of the Southern in order to get a fair share of the Alabama coal and iron trade, but that his reply was he found he could not get Mr. Smith unless he bought the Louisville & Nashville road at the same time.

Mr. Smith, though president of one of the great railway systems of the country, and well along in years, and crowded as is every railroad president with work, found time nearly every month to go into the Birmingham district and call in person on all the coal and iron operators, and ask them what service he could render to make the work of his road more efficient, and what he could do to co-operate through supplying cars or the building of sidings to increase their business and their profits. Under such work as this no coal operator or iron manufacturer would ship stuff on any other road if he could possibly handle it over the Louisville & Nashville. Mr. Smith regarded his customer as his business friend, and did not regard his position as president of a great railroad as too big to justify a personal call at least every month or so on his customer in order to increase the personal contact, and to bring about the securing of the bulk of a customer's business.

That spirit must prevail among the bankers of the country, and likewise among railroad men high and low; and there are none in the banking or in the railroad fraternity too big or too busy to imitate Mr. Smith's example, if they would bring about a wholesome mutuality of business friendship between the banker and his borrower, or between the railroad man and the shipper. Red tape and the ignoring of that personal contact which Mr. Smith gave to his business have helped to create a spirit of irritation between the shippers and the railroads, and between many bankers and their customers. The bigger the man, whatever may be his official position, the more ready he should be to follow the example of Mr. Smith.

The same spirit was exhibited a few months ago by a very big Western manufacturer of machinery. His house had sold to a Cuban sugar house \$400,000 worth of machinery and received an advance payment of \$150,000 to guarantee the fulfillment of the purchase. Later on when the collapse in Cuba reached its worst the buyers wrote to the Western house saying that the situation was so desperate that it would be impossible to complete the payment of \$250,000, and, therefore, they desired the order canceled and would forfeit the \$150,000 payment rather than undertake to complete the purchase.

The head of the Western house in talking about the matter said that this was not a case where a salesman or any one except a man able to speak authoritatively could handle the situation. Therefore, he immediately took the train to Key West, went to Cuba and saw the buyers. He knew them to be thoroughly honest. He found the situation exactly as they had said. He asked them, "Do you really need the

machinery which we are building for you? And if purchased and set up would it be helpful in increasing your profits?" They answered emphatically in the affirmative, but said that it would be dishonest on their part to let him go ahead and that they could not even pay the freight and that they preferred to lose the \$150,000 they had paid. The reply was, "If you really want the machinery it will be furnished to you, and not only will the freight be prepaid, but the expense of setting it up will be advanced by us, and the payment will be extended indefinitely until you are ready without the slightest inconvenience to make it." This offer was gladly accepted.

That is the kind of spirit which wins out, the kind of spirit which should be evinced by every banker, by every railroad man and by every other man doing business. The spirit of grasping for the money because its payment can be enforced, or the spirit that taxes the shipper a freight rate that is excessive, is the spirit that destroys; and many of the difficulties of the world today are due to the spirit of destruction which masks under a spirit of conservatism and imagined safety taking a narrow visioned view of the things which would make for the betterment of business and the advancement of civilization itself.

MAKING FLORIDA CITRUS FRUITS KNOWN TO THE WORLD.

THE Thomas Advertising Service of Jacksonville has carried on a publicity campaign for the Florida Citrus Fruit Exchange in which the display advertisements prepared for leading magazines and periodicals in this country and England match, we believe, anything ever prepared in the way of advertising copy in this country. Indeed, we do not know that we have ever seen anything quite so artistic in advertising and so likely to be productive of results.

The advertising of oranges and grapefruit printed in colors makes such an appeal to the eye and to the palate that if the citrus fruit growers continue for a few years a campaign of this kind and broaden it as the opportunity offers, there need never be any overstocking of the American market for citrus fruits. The demand for oranges and grapefruit by this system of advertising so superbly done should be increased so rapidly as to take care without difficulty of the ever-growing supply of Florida's unequalled oranges and grapefruit.

ONE CAUSE OF FEWER RAILROAD ACCIDENTS.

THE Birmingham Age Herald quotes President Markham of the Illinois Central Railroad, in referring to the decrease in railroad accidents notwithstanding the increase in passenger travel as compared with 1911, as saying:

"We believe that the public will agree with us that the handling of the heavier business with a smaller percentage of fatalities is a barometer of railroad efficiency."

It is interesting in this same connection to note that President Stone of the Brotherhood of Locomotive Engineers in a recent letter to the MANUFACTURERS RECORD which will shortly be published, says that prohibition has reduced drunkenness 75 per cent. It is obvious that this reduction in drunkenness has already had a profound influence on the decrease in the number of accidents.

The president of the Gulf States Steel Co., Birmingham, Ala., writes that accidents around their plants have been reduced at least 75 per cent due to prohibition.

Within a few weeks the MANUFACTURERS RECORD will publish in pamphlet form the views of hundreds of manufacturers and others on Prohibition as an economic issue, as well as viewed from the moral standpoint. The results which have been given to us as showing decreased accidents, in-

creased efficiency, better condition of women and children, and lessened drunkenness in and around manufacturing establishments, will prove one of the most unanswerable arguments ever put forth in behalf of Prohibition if viewed simply from the standpoint of economics and of the saving of life. Entirely without regard to whether a man may approve or disapprove of the Prohibition Amendment and the Volstead Act, he must if honest hearted be willing to study the facts already accomplished as shown by the testimony of many of the leading employers of the country. Their testimony is overwhelmingly in favor of Prohibition.

The Prohibition pamphlet, which will shortly be issued by this paper, should be widely distributed throughout the country. It will prove invaluable to men who are honestly seeking to know the truth. No man who loves his fellowman more than he loves the gratification of his own selfish appetite, no man who seeks to see the advancement of women and children and see them better fed and better clothed and happier than they were under the rule of the liquor traffic of the country, can be otherwise than profoundly moved by the facts which will be given.

The statements of Judge Gary, President Stone and hundreds of others who take the same view, and who hit straight out from the shoulder in favor of the value of Prohibition in an economic sense, as well as from the moral standpoint, will profoundly affect not only this country but the world.

WHEN AN ARMY LOSES FAITH IN ITS OFFICERS.

IN a letter to the MANUFACTURERS RECORD from R. E. Dennis, a lawyer with large farming operations, residing at Bishopville, S. C., he says:

"I notice that you are insisting on President Harding removing Gov. W. P. G. Harding from the Federal Reserve Board. How can he consistently do that in view of the Republican platform of June, 1920, which contains the following statement:

"The prime cost of 'High Cost of Living' has been first and foremost a fifty per cent depreciation in the purchasing power of the dollar due to a gross expansion of our currency and credit. Reduced production, burdensome taxation, swollen profits and the increased demand for goods arising from a fictitious but enlarged buying power have been contributing causes in a greater or lesser degree. We condemn the unsound fiscal policies of the Democratic Administration which have brought these things to pass. There is no short way out, and we decline to deceive the people with vain promises or quack remedies but as the political party that throughout its history has stood for honest money and sound finance, we pledge ourselves to earnest and consistent attack upon the high cost of living by rigorous avoidance of further inflation in our government borrowing, by *courageous* and intelligent deflation of overexpanded credit and currency.

"President Harding and the Republican Party were just as much in favor of deflation as Gov. Harding. No wonder he says now that the present condition could not have been avoided. President Harding merely changed his position when the necessity for a more lenient policy became apparent to everybody. It is amusing now when we consider the delightfully good times that existed when President Harding made his acceptance speech to think about how he declaimed against the conditions existing then and how he longed for what he called 'normalcy'. The very meaning of the word 'normalcy' has changed now and everybody uses it in the sense of an approach to conditions that existed at the time the word was coined. However, it is not surprising that the Reserve Board decided on deflation when practically every newspaper, cartoonist and humorist in the country were calling night and day for a return to the time when 'a dollar would buy a dollar's worth of goods'. They thought at first that the plight of the farmer was amusing but when the result of his inability to buy brought confusion to business generally then sentiment changed.

"Let us hope that the country has learned this lesson, that the prosperity of any business depends upon the prosperity of its customers regardless of the section in which they live. And also that this is true whether those customers live in our own country or some other."

The points which Mr. Dennis makes are extremely interesting.

It must be understood that we are suffering from the determination of the Wilson administration to break down agricultural prices. In August, 1919, President Wilson said to the railroad brotherhoods that if they would wait for three or four months before insisting on an increase in wages the power of the government would be used to break down the cost of living which, of course, meant the cost of agricultural products.

At that time we said that President Wilson could not possibly bring about the reduction in the cost of living unless he broke down the price of agricultural products. The campaign which he inaugurated was aggressively followed by Secretary Glass, Secretary Houston and the Reserve Board. Secretary Houston said that he was opposed to the War Finance Corporation because its operation in the shipment of products to Europe would help to maintain high prices in this country and so he fought the War Finance Corporation, discontinued its operation and when Congress proposed its revival he vigorously fought it, and President Wilson vetoed the bill for its re-establishment. The Federal Reserve banks continued to urge drastic deflation of credits urged by the men appointed by President Wilson and who still dominate the Federal Reserve Board and these appointees dominate Federal Reserve banks. Thus we can go back to the beginning of the campaign for the break down of prices to the continued tireless efforts of the Wilson administration to bring this about. What we are suffering today is the inevitable outcome of that campaign and this outcome was clearly foreseen by every intelligent man who cared to look ahead.

The country was swept off its feet by the incessant demand from Washington that prices must be broken down and by the ceaseless agitation by the law department of the Government in its denunciation of profiteering, completely ignoring the fact that far and away the greatest profiteers in the country were the Federal Reserve banks who taught other banks of the country how to become profiteers. The people at large are in part to blame for the campaign, for the newspapers and the cartoonists were urging the break down in the price of everything. To the utmost extent of its power the MANUFACTURERS RECORD warned the country against this campaign. It fought it with the vigor with which it fought Germany and with the vigor with which it has fought the Federal Reserve Board for two years but it seemed as a "voice crying in the wilderness" against the popular clamor of the hour.

In his presidential campaign Mr. Harding showed such an intelligent comprehension of the agricultural interests of the country that it was believed that he would bring about a change of financial conditions which would save agriculture. We warned him that there would be no full betterment of conditions so long as men responsible for the break down were left in power, and since the law permits him to dismiss members of the Board for cause he is responsible for the continuance of these men in office. President Wilson made a mistake in appointing them, although they carried out the definite policy which he proposed in August, 1919, to the railroad brotherhoods. President Harding is now responsible to the country for his failure to reorganize the Board. When a general in command of a great army is defeated over and over again until his troops lose faith entirely in his ability, even if not in his integrity, he is instantly removed from office on the ground that it would be impossible to rally the strength of the army and the country back of it. No army can fight when it has completely lost confidence in its commanding officers and subordinates. In such a condition it is licked even before the begins.

The commanding officers of the entire Federal Reserve system from the Board of Governors in Washington to some

of the Governors and Boards of Directors of the Federal Reserve banks have lost the confidence of the country. It is no more possible for the country to fight advantageously against lack of business and poverty under these conditions than it is for an army to fight advantageously when every soldier in the army has lost faith in his officers, in their ability and judgment, as well as in their real desire to save the army from defeat.

If such an emergency should ever arise under President Harding's administration he would not hesitate for a moment to remove the officers in command and put new men to the front who might rally the fighting power of the soldiers and the nation and win the war.

If President Harding would do this in the case of a war against an invader why should he not do so in the case of the great war which now exists, a war against prosperity which has brought poverty to the entire land?

Faith on the part of the fighters can only be had by the removal of the men who have made such a dismal failure.

It is true that the administration has reversed the former policies of the Board and is now bending its utmost efforts to a revival in business which has already begun, but the administration and the country are carrying a big load which should be thrown overboard and then progress and prosperity would leap forward. To this complete reversal of the Federal Reserve Board's policies and to the general belief that Governor Harding's regime will forever end at the expiration in August of his term of office is mainly due the improved business outlook.

GOVERNMENT PROPERTY TO BE PUSHED FOR SALE.

THE United States Government, notwithstanding many sales, still has on hand a large amount of surplus property accumulated as a result of the war. Materials which cost more than \$2,265,000,000, have been declared surplus and about one half have been turned over to Government departments. Actual sales approximate \$1,000,000,000, and the actual surplus now on hand ready for sale cost the Government originally \$190,000,000. This includes a great deal of desirable material and it is believed at Washington that if all of this is sold the result will be stabilizing in its effect on industry. Prospective buyers have, it is said, held back, thinking that the property would depreciate and go for little or nothing and it is understood that some manufacturers have objected to quantities of Government material being sold in this way on account of the effect on their regular trade. Nevertheless there is a consensus of opinion that this unsettled condition will continue unless the property is sold and gotten out of the way. Major Glen E. Edgerton, director of sales, hopes to dispose of all the War Department surplus within a year.

Among the materials which the Government is trying to sell are electrical equipment, hand tools, hardware, lumber, chemicals, oils, metals, paint, engineering equipment, machine tools, clothing, textiles, aeroplanes and parts, scrap metal, canister bodies, gas masks, wagons, railway material, railroad rolling stock, ships, barges, building material, food stuffs, leather, medical supplies, hospital supplies, laboratory supplies, greases, saddles, harness, office equipment, small arms, and packing cases. There are also land and buildings to be marketed.

It is realized by Government officials that sale of this property as speedily as possible will, in some instances, work temporary hardship on industry, but they feel that its rapid disposal and a settlement of doubts as to the quantity will, in the long run, be beneficial as compared with results if the sales were dragged out over a long period. The character of property mentioned is evidence of its desirability and it is hoped to accomplish the sale of it according to announcements without delay.

FLORIDA'S POPULATION.

FLORIDA has made wonderful progress during the last ten years. You hear many say that it is because the population of the State is made up largely of Northern and Western people. But is such the case? Recent Census figures show that about 82 per cent of Florida's population is Southern born. For instance, there are more than two and a half times as many natives of other Southern States living in Florida as there are natives of all Northern and Western States living there. Florida has been greatly blessed by the incoming of Northern and Western people but do not let us forget that 82 per cent of its population is Southern born.

According to the 1920 Census, Florida has a population of 968,470, of which 914,606 are native Americans. Of Florida's total population, however, 560,103, or 58 per cent, were born in the State, about 23 per cent were born in other Southern States, as listed in the accompanying table, and about 13 per cent were born in States outside of the South. About 5.6 per cent were foreign born.

NATIVITY AND STATE OF BIRTH OF FLORIDA'S POPULATION, 1920.

	All.	White.	Negro.
Total population	968,470	638,153	329,487
Natives of United States	914,606	595,145	318,822
Born in:			
Florida	560,103	342,353	217,229
Born in other Southern States:			
Georgia	102,530	54,426	48,092
Alabama	50,639	36,688	13,937
South Carolina	34,930	11,986	22,931
North Carolina	17,358	9,974	7,376
Tennessee	8,340	7,643	697
Kentucky	8,065	7,786	279
Virginia	6,672	4,633	2,037
Mississippi	5,073	4,198	874
Missouri	4,622	4,495	127
Born in North and West:			
New York	15,918	15,669	213
Ohio	13,774	13,580	193
Illinois	11,505	11,303	107
Pennsylvania	11,025	10,784	241
Indiana	8,467	8,399	67
Massachusetts	4,728	4,650	77
Michigan	6,554	6,501	43
Other States (includes some Southern States)....	39,434	37,605	1,788
Other native, born in outlying possessions, etc....	4,879	2,352	2,514
Foreign born	53,864	43,008	10,665

WHAT HARD WORK DID FOR A STATE.

THE splendid road campaign in North Carolina shown in the recent letter of our Mr. Phenix, involving an expenditure of \$50,000,000 which saved that state from the depression suffered elsewhere, was largely the outcome of the suggestion first made, we believe, by Mr. T. J. Kirkpatrick of Charlotte, who for years has been an incessant, tireless worker for good roads. Into the campaign for this \$50,000,000 expenditure he threw the whole energy of his soul, and what a commercial organization can do in advancing the welfare of a state is illustrated in the fact that the Charlotte Chamber of Commerce spent about \$7000 for its advertising and propaganda campaign to help put this \$50,000,000 bond issue through.

Charlotte should receive full credit for this splendid piece of work, and what the Chamber of Commerce and Mr. Kirkpatrick accomplished for the good of the state should stimulate other men and other commercial organizations in every part of the South, and indeed in every part of the country, to similar good work.

Old fashioned virtues still bring substantial rewards. For instance, another man has been discovered who made his fortune by attending to his own business.

Co-operative Handling of Cotton—If Fruit Growers, Potato Farmers and Others Can Co-operate in Selling Why Not Cotton Raisers?

[Special Correspondence Manufacturers Record.]

New Orleans, La., April 15.

The Cotton Growers Co-operative Idea is taking strong hold all over the cotton belt. The plan is now being tried out in all of the cotton growing states, and an effort is being made to secure co-operation between all the states. This is said to be an offshoot of an idea worked out by Aaron Sapiro, among the raisin growers of California, where it put the industry on a new and highly profitable footing. Sapiro's services have been called on in several Southern states, the first work being done in Oklahoma, as I recollect it some two or three years ago. The long staple growers of the Mississippi delta were probably the first to effect an organization, followed by Oklahoma and Texas. According to my information, co-operative associations have also been effected, some very recently, in Arkansas, Georgia, North and South Carolina, in addition to Alabama, with Louisiana under way, thus presenting a completely united front.

As I am informed, the National Farm Bureau Federation is fostering the movement, and has affiliated with it State and County Farm Bureau organizations. The American Cotton Growers' Exchange, of which Carl Williams, of Oklahoma City is president, is undertaking to serve as an overhead sales organization for all the cotton states. While there has been as yet no welding of the state organizations into one cohesive national body, and many of the state organizations are acting in a wholly individualistic capacity, it is the aim of the American Cotton Growers' Exchange to ultimately bring about such close co-operation between the state organizations as to eliminate competitive selling between state associations, as these organizations eliminate competition among the individual members.

State organizations require that members turn over to the association all cotton and cotton seed produced by them during a period of years, usually five, and this contract is inviolable. The association grades, pools and markets the cotton according to its best judgment, and the member is paid his pro rata of the receipts. A minimum representation (say, 100,000 bales) is required before a state organization becomes effective, but when growers of the required aggregate sum have signed up, they are bound by penalties to rigidly adhere to the terms of the contract they have signed. After becoming members there is no requirement as to the number of bales they shall produce in any given year; only they must turn over to the association all that they may produce.

With every one of the cotton producing states thus aligned for the specific purpose of marketing cotton to the best advantage, a new factor of possible vast importance has been injected into the cotton industry of the world.

A. P.

500 Foot Government Dock Completed.

St. Louis, Mo., April 22—[Special.]—A 500-foot dock costing \$210,000 has been completed here by the government, and a 52 foot dock is ready at East St. Louis, for use in connection with the river barge service. Two railroad tracks, an approach 250 feet wide and an all-steel warehouse 250 feet long and 58 feet wide are the features of the new dock at the foot of Rutger Street. The new docks with the 500 foot municipal dock at North Market Street give the government river service adequate terminal facilities. The East St. Louis floating dock is designed for the transfer of car lots of freight originating in the Valley. It consists of two 250 foot concrete barges, end to end, equipped with tracks and capable of carrying thirty-two freight cars. The cars will run to barge-side down a 3 per cent incline.

Though Crops Decreased But 8 Per Cent in Production Since 1919, Their Gross Value Has Dropped 55 Per Cent.

The gross wealth produced by farmers in 1921 had a value of \$12,366,000,000, as estimated by the Agricultural Department. This is about two-thirds of the aggregate value of the farm products of 1920, which was \$18,263,000,000, and little more than one-half the aggregate for 1919, which was \$23,783,000,000.

During the same period, 1919-21, production of 10 crops which represent about 95 per cent of the total crop acreage fell 8 per cent. The quantity of crop production in 1919 was about the same as during the preceding 7 years; that in 1920 was the largest ever recorded, and that in 1921 was the lowest since 1913.

The total value of crops, excluding animal and animal products, declined from \$15,423,000,000 in 1919 to \$10,909,000,000 in 1920, and to \$7,028,000,000 in 1921. The decline of the total value of animal products on the farm was from \$8,361,000,000 in 1919 to \$7,354,000,000 in 1920, and to \$5,339,000,000 in 1921.

Several groups of crops are prominent—the cereals \$2,563,000,000, or 36.5 per cent of the crop total; the vegetables, including potatoes and sweet potatoes, \$1,104,000,000, or 15.7 per cent; cotton lint and seed \$755,000,000, or 10.7 per cent; fruits and fruit products \$525,000,000, or 7.5 per cent; and fruits and vegetables together \$1,629,000,000, or 23.2 per cent.

Of the total value of animal products in 1921, the dairy products were nearly one-half, \$2,410,000,000, or 45.1 per cent; the animals raised \$1,937,000,000, or 36.3 per cent; and the poultry raised and eggs produced \$943,000,000, or 17.7 per cent.

April Building Breaks Records for the Year—Big Increase in Contracts Awarded.

Southern construction activity has taken another big leap forward and shows no signs of slackening.

During the week ended April 20 the total number of items published in the construction columns of the MANUFACTURERS RECORD was 1384, and for the week of April 6, 1227. The high figure for 1922 was the week ended March 30 with 1181 items. The average number of items published the first 16 weeks of this year is 1103 compared with a weekly average of 1143 for 1913, the highest year of which we have record, and with 1138 in 1914. The figure is the more significant when the season is considered:

A new high record for this year in contracts awarded was established for the week ended April 20, the valuation being \$16,540,355. This was surpassed only once in the past 15 months, the week of December 30, showing contracts amounting to \$16,877,438. The week of April 6 with \$15,334,614 in contracts awarded holds second place for this year.

The total expenditure involved in the fulfillment of contemplated projects is no less impressive. For the week ended April 20 this classification showed a total of over \$26,000,000, with more than \$25,000,000 for the preceding week, indicating clearly the vast amount of construction work of all kinds now in prospect. This will get under way within the next few weeks or months. Already the activity surpasses the volume of construction in 1921 and 1920 by a big margin, and unprecedented totals are being piled up, so that the program is assuming the proportions of a building boom.

Evidence in abundance points to these developments in the construction industry as but indicative of a general improvement in many different lines and the forerunner of more prosperous conditions throughout the South and the country. The direct and indirect influence of the widespread building activity is a powerful influence for good.

"The Golden Rule Has Been the Unwritten Law of the Plant."

BY REV. CHARLES FREDERICK GOSS, Daytona, Fla.

[The Ashland, Ky., Daily Independent, in a recent issue devoted twelve pages to what it called the "Independent's Armco Section" in honor of the welcome that was being extended at that time to the officers of the American Rolling Mill Co.]

This company, as previously announced in the Manufacturers Record, recently acquired the properties of the Ashland Iron & Mining Co., and will greatly enlarge its operations in connection with the present plans of the American Rolling Mill Co., at Middletown, O. Mr. George M. Verity, President of the American Rolling Mill Co., and his associates, were given an "Ashland dinner" by the Chamber of Commerce, at which the operations of the company and its plans for the enlargement of the Ashland plant were given in detail.

It seems appropriate in connection with this welcome to Ashland of Mr. Verity and his associates and their plans for carrying out a great industrial development at that city, to publish an article written several weeks ago for the Manufacturers Record by Rev. Charles Frederick Goss, of Daytona, Fla., in regard to Mr. Verity and his work. It has been Dr. Goss' pleasure to know Mr. Verity since the early boyhood days of the latter, and to have kept in intimate touch with the work that he has done.—Editor Manufacturers Record.]

Like so many successful men, George M. Verity, president of the American Rolling Mill, is the son of a clergyman. His father was one of that innumerable army of Methodist ministers who are content to go to the rescue of perishing churches; pull them out of the waters in which they were sinking; tow them into a drydock and fit them for another voyage.

It followed as a matter of course, that this peripatetic clergyman and family, "folding its tent like the Arabs" and setting it up for a year or two at a time, by any little village oasis, was deprived of all the luxuries of life, and not a few of its comforts.

When he was fourteen or fifteen years of age, young George conceived the idea that he was not getting a very large bite out of the big ripe apple of life, and struck out to set his teeth a little deeper into its juicy meat. His principal venture, at the beginning of his career, was stiffening up and enlarging the business of a modest grocery store. Afterwards he got his hands upon a modest enterprise, in the line of galvanized iron products, located on the shore of the Ohio river, in the city of Cincinnati, and speedily galvanized the enterprise itself.

During this very important period of his career, his conceptions of individual responsibility for citizenship, received that wonderful enlargement which has resulted in his becoming one of the most advanced and powerful members of that ever increasing contingent of business men who no longer play the part of High Priests to the Great God of Business; but adore and follow the lowly Galilean, in his ministry of service.

That enlargement of views appears to have originated in connection with the growth and evolution of an organization known as the Young Men's Business Club, of which he ultimately became the president, and through the reading of a series of articles upon "The love of the town you live in," published in one of the daily papers.

The sublime idea that business is as sacred a calling as the ministry, and that it is rather a means of improving the conditions of the life of its employees and the community in which it is placed, rather than increasing the personal wealth of its owner, proved revolutionary in the career of this aggressive and powerful personality. With Mr. Verity, a truth is not a whim, a fancy, a dream sentiment; a will-o-the-wisp which floats forever before him, out of reach. It is a force that grips him, as one of the electric hoists in the Rolling Mills grips a ton of iron, and energizes him, like one of those powerful electric motors. The very center of his gravity was suddenly shifted by it. A different motive, another aim, found place within his spirit. Business became the instrument by which he was to ennoble the lives of other men, and wealth, a lever by which he was to elevate the intellectual and moral life of the town in which he lived.

By the time that this conception had taken malleable shape in his mind, an opportunity occurred to secure a tract of land in Middletown, Ohio, some thirty miles to the north of Cincinnati, suitable for the establishment of an iron mill of which he had been dreaming. Such men are dreamers, all.

"Some dreams we have, are nothing else but dreams—
Unnatural and full of contradictions.
Yet others of our most romantic schemes
Are something more than fictions."

He awoke to find his dream come true; but only after many a long night-mare of "contradictions," oppositions, misunderstandings, and failures—such as are inevitable in the development of any great and noble scheme. The mill was built; the furnaces began to roar; the products to pour forth. Success was won! The instrument was ready!

Now, how to use it!

Slowly, wisely, insistently, Mr. Verity began to unfold his scheme and develop his theory to his Board of Directors—men who in the main had inherited, unquestioned, the traditional idea of "business for personal aggrandizement." Of course, they staggered and protested; but to that glorious vision they at last surrendered, and today it may be truthfully said that in that enormous and ever growing business of forty to fifty millions of capitalization, idealism sits upon the throne.

Of course, the fundamental idea of "profit" dominates every thought and act. It must, for unprofitable business is not a living force for righteousness; but a cadaver, fit for a funeral only.

But, next after profit, the idea of a nobler life for the operatives, acts as an incentive. What can be done for the betterment and ennobling of the lives of these thousands upon thousands of men and women and children, who are dependent upon the successful operation of this roaring, groaning monster of production? Anything and everything that will work! But nothing for the sake of mere publicity nor for applause. Mere "sentiment" has no place in the management of that tremendous enterprise which, if it is philanthropy on one side, is business on the other.

It would be a joy, if there were space, to enumerate and describe the safety appliances, the hospital, the bank, the athletic field, the club house, the schooling facilities, the organizations of the employees, the incentive to thrift, to esprit de corps and what not; but a single aspect of the complex scheme must satisfy.

As an instrument of human joy and refinement, music occupies a large and important place. Not long ago, a citizen of Middletown, highly gifted and accomplished in the art that "has charms to soothe the savage breast" and is "the universal language of mankind," was encouraged to form a band out of the operatives. And what a band! With our own eyes, we have seen a crowd of twelve or fifteen thousand people standing, or sitting in the athletic arena, gathered from distances as great as thirty miles, spellbound by the

most classic music ever written, as interpreted by that band!

After profit and the prosperity and development of the employees there comes, as a motive, the improvement of the city at large, the home and environment of the mill. Environment! To the influence of environment Mr. Verity is as sensitive as any man alive, and, therefore, the town he lives and labors in must be a good town! And a good town, he and his coadjutors, have helped to make it. What would you say about a corporation that has backed and forwarded a movement to raise a million dollars to make a city what it ought to be—to build beautiful hospitals and institutions for young men and women, and parks, and everything else—to say it all in a word.

An ideal city! What a dream!
"Its citizens did not love Rome because it was beautiful. It was beautiful because they loved it."

It would seem inevitable that the family life of a man like Mr. Verity should be what it ought, and it is. His wife has kept pace with his development; has shared his vision and his labor. His three children, two daughters and a son, are happily married and living around the paternal home. The son inherited the father's talent and purposes, is rapidly assuming great responsibilities in the business, and becoming capable of its management. Mr. Verity's home itself is a modest one; but commodious, beautiful and hospitable. In its rear, he has reclaimed a valueless waste of land, and constructed a golf links that is beautiful, indeed; but what is better, as free to you and me as it is to him.

If a man who has accomplished such miracles as these should have grown vain, complex, sophisticated and distant, it would not be strange; but he is still a child in spirit, and everybody knows what kingdom a child is fit for. He never gets discouraged; never surrenders; never lowers his standard; never goes back on a friend; and what a life he gave that good old Methodist father of his, when he was falling into "the sear and yellow leaf!" Comfort, ease, luxury, travel—travel everywhere!

Dare any man claim that the conception and the methods of this man of affairs are wrong, or mistaken? Can any man offer an excuse for not adopting them?

Who does not know that they, or others of their ilk, are the ones, and the only ones, that can save the world from ruin? Who does not know that had they prevailed in Russia, that monster Bolshevism would never have been gotten?

There has never been a strike in the American Rolling

Mill. There has never been a serious misunderstanding. There has always been a feeling of comprehension on the part of employees and employers. A spirit of good will has been present, always, because the Golden Rule has been the unwritten law of the plant.

Any careful student of human life, after looking on this stupendous institution (the offspring of one man's vision and determination) will wonder whether being president of Princeton, or Columbia, Yale or Harvard, offers an ambitious and sincere soul a greater or more honorable sphere of influence, than a purely commercial institution founded on principles such as those that underlie the American Rolling Mill in Middletown.

Merchants and Miners Award Contract for Two \$850,000 Vessels.

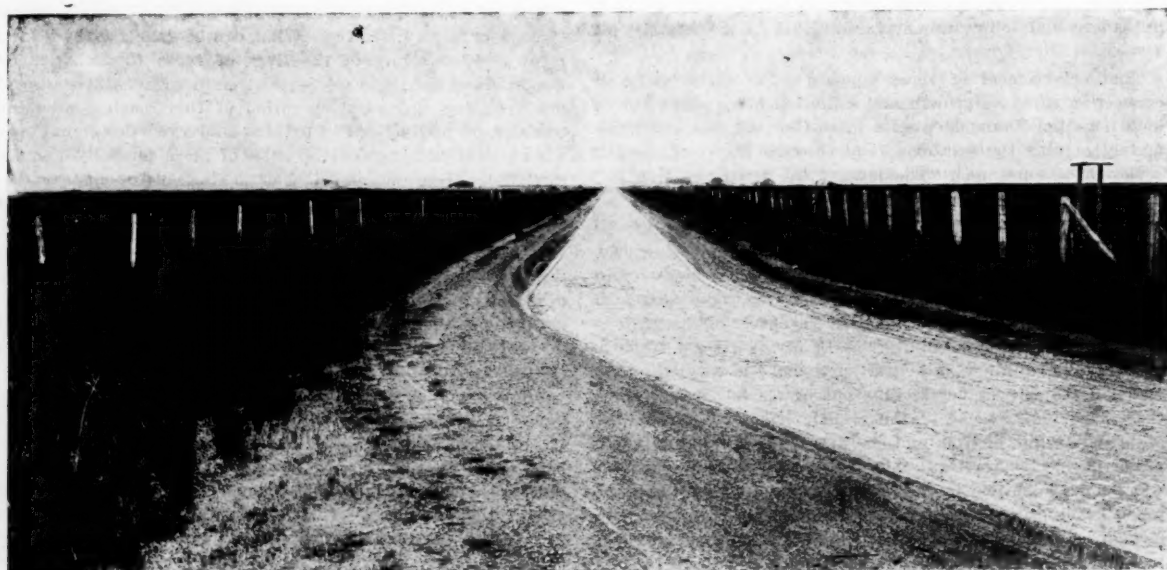
The Merchants and Miners Transportation Co., of Baltimore, has awarded a contract to the Federal Shipbuilding Co., of Kearney, N. J., for construction of two steamers at a cost of \$850,000 each. They will be 368 feet long, 52 feet wide and 35 feet deep, of 4,600 gross tons and having facilities for 200 first class passengers. The need for additional tonnage and increased passenger carrying capacity caused the company to award the contract at this time, and the vessels will probably be in operation early in 1923.

\$550,000 Railroad Hospital Contract Let.

Wm. MacDonald Construction Co., of St. Louis, Mo., have been awarded the contract for construction of a hospital for the St. Louis & San Francisco Ry. at a cost of \$550,000, to be erected in Springfield, Mo. It will be of fireproof construction with steel frame.

Plan Deep Waterway from Lake Charles to Gulf—Calcasieu Parish Active in Road Building.

Lake Charles, La., April 22—[Special.]—On June 13 the people of Calcasieu Parish will vote on a bonded indebtedness amounting to \$2,750,000 which, with the Government funds made available amounting to \$780,000, will be used to deepen and widen the Calcasieu-Sabine section of the Intracoastal Waterway. This says W. P. Weber, chairman of the Port and Waterways Committee, will mean a depth of 30 feet with a



SECTION OF BRICK HIGHWAY ON OLD SPANISH TRAIL EAST OF LAKE CHARLES.

bottom width of 125 feet and make available a waterway from Lake Charles to the Gulf.

This development is the result of a realization on the part of the people of the parish two years ago that the growing demands for commerce in the immediate territory called for a greater water outlet. Application was made to the United States Government to secure a deep water channel as above suggested.

The first plan called for a canal with a bottom width of 90 feet and a depth of 12 feet, and jointly with the Government \$490,000 was to be expended. Work was begun and carried to a point about six miles east of the Sabine river, where it was stopped owing to the war.

"On the main line of the Southern Pacific, Lake Charles is 219 miles west of New Orleans, and is the closest route to the

the Mississippi river via the Intracoastal Canal, which when completed will connect the Mississippi River with the Rio Grande.

Calcasieu Parish has been a pioneer in the good roads movement and Lake Charles is the hub of the 300 mile system of



TYPE OF GRAVEL HIGHWAY.

Approach to the Calcasieu River Highway Bridge on the Old Spanish Trail through Calcasieu Parish.

Gulf, to the great originating territory of the Central West, being 697 miles from St. Louis, 741 miles from Kansas City and 935 miles from Omaha," says an announcement of the local Association of Commerce. At present the city has barge connections with the Sabine river on the west, and east to



SECTION OF CONCRETE HIGHWAY.

On the Old Spanish Trail through Calcasieu Parish, La., between Sulphur and Calcasieu River, approaching Lake Charles.

surfaced highways in the parish, consisting of concrete, brick and gravel roads. It is on the Old Spanish Trail—All Southern Highway—the Pelican Highway and the Great Lakes and Gulf Coast Highway. Some views of the Old Spanish Trail are presented herewith.

There is in Lake Charles and vicinity a very marked activity, both in the development of good roads along broad and permanent lines, and in the improvement of available waterways, according to Herbert Bayliss, general manager of the Association of Commerce. Every effort will be made to emphasize in nearby territory the advantages of making this point a shipping center for a much wider district, taking in a considerable portion of the Mississippi Valley and the Central West.



BROAD STREET LOOKING EAST ON THE OLD SPANISH TRAIL IN THE CITY OF LAKE CHARLES, LA.

\$1,500,000 Contract Awarded for Addition to a Richmond Department Store.

Richmond, Va., April 22.—[Special.]—Work will begin at once on the \$1,500,000 addition to the Miller & Rhoads, Inc., department store, the contract having been awarded to John T. Wilson Co., of this city. The ground has been cleared and everything is in readiness for the work to proceed rapidly. Fourteen bids were submitted for the work. The building will front 196 feet on Grace street and be 153 feet deep, and five stories high, with a basement running the entire length and width of the building and a sub-basement for machinery, service and delivery departments. With the construction of the new building the Miller & Rhoads store will cover the entire block from Grace to Broad street, between Fifth and Sixth, and have more than 400,000 square feet of floor space, providing for enlarging all the departments.

The building will be of fireproof construction, with sprinkler system throughout. The exterior will be of brick and terra cotta. Six elevators will be installed. There will be a main dining room with a complete kitchen and refrigerating plant.

The architects are Starrett & Van Vleck, of New York. The permit is the largest issued in this city since that for the Federal Reserve Bank building nearly three years ago.

50 Bee-hive Coke Ovens to Resume.

Birmingham, Ala., April 22.—[Special.]—According to J. B. McCleary, president of the Yolande Coal & Coke Co., the New Connellsville coke ovens, 50 bee-hive coke producers, which have not been in operation since the world war are being made ready for resumption of operations May 1.

The company has had its 100 bee-hive ovens at Yolande in operation steadily for several months, and the demand for more coke now is sufficient to warrant starting up the 50 ovens at New Connellsville. No time is being lost in placing the units in shape for operation. The daily resumption of foundries and machine shops that have been closed and the speeding up of work in others that have been running part time is bringing about a larger need for coke, consequently the output of the product must be increased.

The mines of the coal company have been working on a six day schedule for some time.

\$900,000 Apartment-Hotel for Baltimore.

Plans have been completed by J. E. Moxley, Jr., architect, of Baltimore, for a down town apartment-hotel estimated to cost upwards of \$900,000. Five firms have been requested to submit bids by May 5 and if a satisfactory one is received the work will begin immediately and be rushed to completion to permit of occupancy by fall. As planned the new structure will have a frontage of 86 feet and a depth of 184 feet, containing 130 apartments, public dining room, one freight and one passenger elevator.

Virginia Bridge Purchases Birmingham Steel Co.

The Virginia Bridge and Iron Company, Roanoke, Va., has purchased through the bankruptcy court at Birmingham, Ala., the properties of the Birmingham Steel Corporation, purchase price stated \$148,000. C. E. Michael, president of the purchasing company, announces that the newly acquired property will be put in condition for immediate operation.

Reports Another Discovery of Potash.

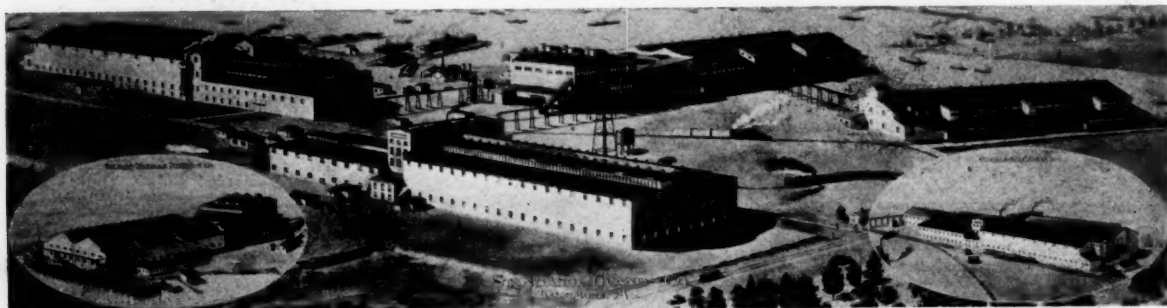
Austin, Texas, April 20.—[Special.]—Another potash discovery in West Texas is announced in reports received here. It is stated that the Texas Oil and Land Company, while drilling a test well fourteen miles west of Big Lake, Reagan County, encountered a bed of potash at a depth of 1360 feet. The potash strata was 40 feet thick. Frank T. Pickrell of New York is vice president of the company. An investigation of the possible commercial importance of the discovery will be made.

Fertilizer and Acid Plants in Baltimore Industrial District Now on 24 Hour Basis.

Increased business coming from widely scattered sections of the country has necessitated the operation of the large plants of the United States Guano Company, the Union Acid Works, Inc., the Standard Wholesale Phosphate Company, and the Standard Acid Works, Inc., in the Curtis Bay section, Baltimore, on a 24 hour basis seven days a week. The plants used in the production of fertilizers, acid-phosphate and sulphuric acid are now running at capacity with sufficient orders in sight to insure continued operation on the present basis for some time to come.

Upwards of 650 men are at present employed in the production of fertilizer alone, the acid plants being of such design that most of the manufacture is automatically controlled, requiring therefore only a few men for operation, despite the big tonnage turned out. The large plant of the Standard Wholesale Phosphate Company, which has been under construction for more than two years is now entirely complete, the finishing touches and the final installation of equipment having been added but a few months ago. It is operating at full capacity.

According to George A. Whiting, president of the four companies, an average of 55 carloads of finished product is being shipped daily. "We believe that operation of our plants at capacity is the best plan," said Mr. Whiting in discussing the increased business, "and accordingly we established the lowest possible prices consistent with sound policies and went out after the business. War profits have to be forgotten and the country must get to work; that's what it needs, and we are providing what we can for the laboring men of the city. In some cases we are selling fertilizer below the prices quoted in 1913. The tonnage we are turning out now is record-breaking, and we are pleased with the future prospects."



PLANTS OF THE FOUR FERTILIZER, PHOSPHATE AND ACID COMPANIES IN CURTIS BAY, INDUSTRIAL DISTRICT OF BALTIMORE.

Signs of Prosperity South.

\$500,000 Theatre Contract Awarded.

American Construction Co. has the contract for a \$500,000 theatre building for the Interstate Amusement Co., at Houston, Tex. Jno. Eberson is the architect.

\$150,000 High School Contract.

Fred. Brane Construction Co., Amarillo, Tex., has the contract for erection of a \$150,000 high school building at Amarillo after plans by Parker & Rittenberry.

Municipal Hospital for Muskogee.

A Municipal Hospital, 47 by 118 feet, five stories high, of fireproof construction will be erected at a cost of \$150,000 by the City of Muskogee. Plans were prepared by Chas. P. Nieder, architect, Oklahoma City.

New Bon Air Hotel to Cost \$550,000.

Willis Irvin, architect, Augusta, Ga., has completed plans for the Bon Air Hotel, to be erected at a cost of \$550,000, and work will start not later than May 15. McKim, Mead & White, New York, are associate architects.

Court House Contract Let.

Lonnie C. Shannon, clerk of Chancery Court, Tunica County, Tunica, Miss., reports the contract for erection of the new court house awarded to Algernon Blair, of Montgomery, Ala., for \$122,863, exclusive of heating and lighting.

\$250,000 Auditorium and Library.

Contract will be awarded this week for erection at a cost of \$250,000 of an auditorium, library and municipal building at Amarillo, Tex., after plans by Smith & Towns, of Amarillo and Lang & Witchell, of Dallas.

\$150,000 High School Building.

H. A. Lucas, Bluefield, W. Va., has the contract for erection of a high school building at Princeton, W. Va., costing \$152,000. It is to be steel frame, brick veneer and tile, 193 by 74 feet. Wyson & Jones, Charleston, W. Va., architects prepared the plans.

\$340,000 Hospital Contract Awarded.

The Manhattan Construction Co., Muskogee, Okla., has been awarded the contract for construction of the Soldiers Memorial Hospital at Muskogee, at a cost of \$339,200. It will be a fireproof structure, five stories high, with two elevators. C. P. Miller, Oklahoma City, was the architect.

Dormitory Contract Awarded.

E. G. Halladay Co., Nashville, Tenn., has been awarded the contract for erection of a dormitory at George Peabody College, at a cost of \$147,000. It will be four stories high, 184 by 44 feet, E. L. Telton and A. M. Githens, of New York and H. C. Hibbs, Nashville, were the architects.

Contract Let for 70 Houses.

The Leaksville Lumber Co., Leaksville, N. C., has been awarded the contract for building 70 houses of four, five and six rooms each for the Carolina Cotton & Woolen Mills Co., Spray, N. C. All will be brick underpinned, plastered walls and asphalt shingle roofs.

\$1,000,000 Hospital Expenditures.

The Kentucky Board of Hospitals and Homes of the Methodist Episcopal Church voted recently to take over all the interest of the Pikeville General Hospital at Pikeville, Ky. and \$1,000,000 will be expended to finish the plant to accommodate 2,000 patients annually. Fireproof buildings are being erected and best equipment is being installed.

Preparing Plans for \$100,000 Temple.

Hobart Upjohn, architect, Grand Central Terminal, New York City, is preparing plans for a \$100,000 building for Temple Emanuel, Greensboro, N. C.

To Erect 100 Cottages This Year.

The City & Suburban Realty Co., Dr. George C. Wegefard, president, Baltimore, Md., advises the MANUFACTURERS RECORD: "We contemplate the erection of 100 cottages and bungalows this season. Last year we built 64. The present outlook of business this year is very much better than last."

\$500,000 Oil Refinery to Be Erected.

Construction of a new oil refinery at Mexia, Texas, to cost \$500,000 will be started soon by the Texas-Mexia Refining Company which has been organized for the purpose. It is stated that the proposed plant will have a daily capacity of 3000 barrels of crude petroleum. J. E. Winans of Mexia is president of the company, and O. H. Foster, general manager.

To Increase Mobile Shipbuilding Facilities.

The Todd Shipyards Corporation, which recently took over the properties of the Mobile Shipbuilding Company, Mobile, Ala., is preparing to float from the East a 10,000 ton dry dock. The facilities at Mobile will be greatly increased by the Todd concern; a new slip 600 feet long, and a 500-foot pier are to be added to the yards.

Will Install Spike Mill.

The Vulcan Rivet Corporation, with a rivet plant in Tarrant City, near Birmingham, Ala., announces that machinery is being brought in and a spike mill will be installed, this district at present being without a plant of this kind. W. C. Martin, executive officer of the industry, says the new mill will be in operation by June 1. Demand is strong for spikes, steel tie plates, nuts, bolts and other railroad appurtenances.

Alabama Power Company to Supply Sylacauga.

Hydro-electro power will be supplied by the Alabama Power Co. to the City of Sylacauga, Ala., and distributed over the city's transmission lines. The growth of the demand for power beyond the capacity of the present plant made necessary the provision of another source. Marion, Ala. will also be supplied at an early date, a 20-mile high tension transmission line being built at a cost of \$70,000 connecting that city with Selma.

Over \$3,000,000 in Washington Permits.

Last month 964 permits representing work involving the expenditure of \$3,279,544 were issued in Washington. This total included 234 brick dwellings, costing \$1,697,520; 77 frame dwellings, \$531,850; six apartments, \$515,000; together with a large number of permits for repairs to brick and frame dwellings, new private garages, office buildings and warehouses. The total is far above that for the preceding month.

Building Records in Fort Worth Broken.

Building records in Fort Worth during the past two years were broken for the month of March, when construction work costing \$1,057,501 was authorized, according to the reports compiled by R. C. Males, building inspector. This is the largest total for any single month since March, 1920, when nearly \$1,500,000 worth of building was under way.

The records for February 1922 were 152 permits, with \$259,156 worth of construction work. In March 1921, 243 permits were issued for a total valuation of \$458,810. March, 1922 building permits totaled 219 and were principally for residences, but included also two new school buildings and several store and industrial structures.

THE IRON AND STEEL SITUATION

Conditions at Pittsburgh.

Pittsburgh, April 22—[Special.]—Despite the coal strike, or rather strikes, since the sporadic strikes in nonunion territory like Connellsville are probably only temporary outbreaks, the production of steel has been at a slightly greater rate in the past week than at the end of March, which means a very high rate since ingots were being made March 31 at the rate of about 35,000,000 tons a year, against rates of 30,000,000 tons at the end of February and a trifle under 20,000,000 tons during December.

The strike at union coal mines is of course of no interest whatever to the steel industry. It was fully expected and was in fact the best advertised of the biennial strikes the United Mine Workers have been having quite regularly in the past quarter century. Predictions were that it would last, at all told, anywhere from two to six months. Only a moderate amount of striking was expected in the 35 per cent or thereabouts of the bituminous mines in the country that are nonunion, and this expectation has, in general, been realized, but in the general Connellsville region, including the Connellsville proper or "old basin" and the Lower Connellsville or Klondike, the strikes have far exceeded expectations, having reached a point early in the past week of curtailing production of coal by nearly if not quite one-third, part of the coal being normally shipped with the major part made into coke right at the mine, in beehive ovens. In general the tide of striking has been practically stationary in the past three of four days. A few additional mines have been closed while at other mines, which had been in partial operation, production is increased.

Some of the blast furnaces in western Pennsylvania and the Mahoning valley have had to bank, while others that were to start have not done so. The lake front furnaces are getting along fairly well. The Chicago district is not affected at all, and production there is tending to increase. The Gary plant is operating at 89 per cent and the Steel Corporation's mills as a whole in the Chicago district show an 83 per cent operation.

Steel prices continue to stiffen all along the line, partly by the disappearance of concessions from regular prices, formerly made on particularly attractive orders, and partly by individual mills advancing their prices whereby the number of sellers at open market prices is reduced. Thus all the independent wire mills are quoting \$2.50 on nails, the Steel Corporation being alone in adhering to the \$2.40 price. The mills that quote above the market on steel products secure some orders by offering particularly prompt shipment, for steel deliveries on the whole are not being made with the unprecedented promptness that was seen in the past few months and until quite recently. With better filled order books the mills are able to schedule their rollings ahead, enabling them to operate more economically.

The strength of the steel market is frequently attributed to the coal strike, but the comfortably filled order books of the majority of producers is probably the great factor. However, buying has been so strenuous in the past three months, and production has mounted with such unprecedented rapidity, that probably the steel market is better off with the coal strike than it would be without it.

Lettings of contracts for fabricated steel in March amounted to 77 per cent of the fabricating shop capacity, against 42 per cent for February and 40 per cent for January, the total for the quarter being 290,100 tons or a trifle above the average for the first quarter in the past ten years. As coke supplies, particularly for the merchant furnaces, have been menaced, and as the merchant furnace men claim they have been selling pig iron far below cost of late,

most of the sellers have withdrawn from the market and pig iron is not closely quotable. It could not be bought for less than \$21 for Bessemer, \$20 for basic and \$21 for foundry, f. o. b. valley furnaces, or about \$2 above prices ruling at the beginning of April. Connellsville furnace coke is unquotable, while there have been some sales of foundry at \$6.25, against \$4.75 at the end of March.

New Life at Birmingham—Speeding Up Production—Better Prices.

Birmingham, Ala., April 24—[Special.]—Southern pig iron prices are hardening, sales are still being consummated, preparations are being rushed looking to resumption of operations at several blast iron furnaces while iron consuming plants and steel making works are speeding up production.

The impetus that has struck the iron and steel market in the South promises to extend through the balance of the year and gather more strength as it progresses. Quotations for pig iron are now at \$16.50 per ton with but little of the product selling at \$16. No. 2 foundry, 1.75 to 2.55 per cent silicon. Sales have been steady for some time and the statement is made that the probable make for the second quarter of the year has been sold up and some deliveries will be extended into the third quarter. The \$16.50 per ton level is now being sought by almost all manufacturers of iron in this district. The resumption program at blast furnaces is being pushed so there can be earlier production at some places. The No. 2 Vanderbilt furnace of the Woodward Iron Company and the second of the Thomas furnaces of the Republic Iron & Steel Company will be blown in by May 1. The Sloss-Sheffield Steel & Iron Company after starting up one of the North Birmingham blast furnaces is to repair the second furnace there and will before long have it ready as well as the Philadelphia furnace at Florence. The Tennessee Coal, Iron & Railroad Company is also pushing the work on No. 1 blast furnace at Ensley, this to be the largest furnace in the country, its daily production around 600 tons of iron. A second Bessemer furnace of the T. C. I. is also being made ready.

The surplus stock of pig iron in this district is being worked off as the production is increased. Inquiries for pig iron are being received from various sections and hope is expressed that before the end of the month there may be some further impetus in the business by reason of the strike in the coal mines of the north and central competitive district which has caused reduction in the iron production. Local consumers have purchased freely in the Southern market and the melt of pig iron here is steadily increasing, the high pressure and soil pipe makers in particular melting much iron. Every industry using pig iron in this section is either resuming operations or speeding up their plants. A little scarcity of common labor is noted though no publicity is being given to this fact for fear there may be an influx of skilled labor, of which there is a sufficiency. The ranks of unemployment, however, are being thinned out steadily in this district.

Export shipments of various products from this district continue, especially steel rail to Japan, cast iron pipe, wire and steel sheets for South America, machinery to Cuba. California is buying cast iron pipe and pig iron in this district, shipments being made by water through Mobile.

Cast iron pipe, soil pipe, steel products and other things of the Birmingham district, with the exception of coal and coke, have recently taken on an advance in prices, including pig iron, and still sales are being reported.

Coal production in Alabama has not reached a peak because of lack of orders, some of the larger consumers not calling for delivery on contracts to any extent. The output at mines in this state is greater than it has been for many months but not as great as it might be if there were orders in hand for the product. Mines operated by furnace and steel companies are working well and a few independent mining companies are operating on full time.

Quotations show no change, \$4.50 for furnace coke and \$5.00 to \$5.25 for foundry coke.

Pig iron and iron and steel scrap quotations show very little change for the week, except as to firmness.

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$16.00 to \$16.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.50 to \$17.00; iron of 2.75 to 3.25 per cent silicon, \$17.00 to \$17.50; iron of 3.25 to 3.75 per cent silicon, \$17.50 to \$18.00; iron of 3.75 to 4.25 per cent silicon, \$18.00 to \$18.50; charcoal iron, f. o. b. furnaces, \$32.00 to \$35.00.

OLD MATERIAL.

Old steel axles	\$15.00 to \$16.00
Old iron axles	15.50 to 16.00
Old steel rails	11.50 to 13.00
Heavy melting steel	10.50 to 11.50
No. 1 R. R. wrought	10.50 to 11.50
No. 1 cast	14.00 to 15.00
Stove plate	13.00 to 13.50
Old car wheels	13.00 to 14.00
Old tram car wheels	12.50 to 13.00
Machine shop turnings	6.00 to 7.00
Cast iron borings	6.00 to 6.50
Cast iron borings (chem)	13.40 to 14.00

RAILROADS

Bridge and Line Improvement.

The Nashville, Chattanooga & St. Louis Railway Co. will replace two bridges over the Harpeth River, 23 miles west of Nashville, Tenn., and will relocate about a mile and an eighth of line between the bridges. Estimated cost about \$160,000. At this point there is a heavy grade as well as a reverse curve in the line. The grade will be reduced from 1.6 per cent to 1 per cent and the curvature from 5 degrees to 3 degrees.

Electric Railway and Power Earnings.

Gross earnings of the Virginia Railway & Power Company, of Richmond, Petersburg, Norfolk and Portsmouth, Va., for the year 1921 were \$10,173,334, an increase of \$179,759, as compared with 1920. Operating expenses were decreased to some extent so that the increase of operating revenue over operating expenses was \$192,166; gross income was \$3,341,128 and net operating earnings, after taxes, licenses, etc., were \$2,643,017, from which there was paid \$1,652,918 for interest, rentals, etc., leaving \$990,099, which was set aside for capital account expenditures. The property it is stated is in good physical condition.

Railroad to Get Highway Material.

W. H. Roberts, of Star City, Ark., president of the Arkansas Railroad, running from Star City to Gould, Ark., 18 miles, has submitted a plan before County Judge R. H. Williams for the construction of a line from Star City to Pine Bluff, Ark., 23 miles. It appears that the State Highway Department has two locomotives and 24 gondola cars received from the Government when the excess war material was distributed and his idea is to build a railroad that would put Pine Bluff in direct connection with gravel deposits in Lincoln County which are needed for highway construction. It is also suggested that rails for the track could be obtained from those allotted by the Government for the Arkansas Highway Department. Mr. Roberts' plan also contemplates use of the proposed railroad for passenger service as well as freight, and a possible extension of it to Monticello, Ark.

Improved Motor Car for Branch Lines.

A gasoline motor railroad car of improved design has just been completed by the P. A. Thomas Car Works, High Point, N. C., for the Winther Motors, Inc., manufacturers of motor trucks at Kenosha, Wis., who built the chassis equipped with a four cylinder 60 horse power motor of the Wisconsin Motor Co., Milwaukee, Wis. The car was given a try-out on the Carolina & Yadkin River Railway between High Point and Thomasville, N. C., the results of which were declared to be wholly satisfactory. The car weighs six tons, carries sixteen passengers and has a baggage compartment. It will pull a trailer with a carrying capacity of about 40 passengers. Its maximum speed is 35 miles an hour and it is designed to take the place of small trains on branch lines, being more economical to operate and also more convenient. The Thomas Car Works, it is stated, also have orders for motor railroad cars from the Baltimore & Ohio Railroad, the Chicago, Burlington & Quincy Railroad, the Knoxville & Carolina Railroad and the Grand Trunk Railway of Canada.

Baltimore Street Cars Earn Over \$635,000 Net.

The annual report of the United Railways & Electric Company of Baltimore, operating the street railways of this city and its environs, shows that the total operating revenues for 1921 were \$16,322,865.43; operating expenses and taxes, \$11,675,440.40; operating income, \$4,657,425.03; gross income, \$4,761,604.32; net income, \$635,230.58, after paying all operating expenses, taxes, fixed charges and interest, including the interest on the income bonds. Ratio of operating expenses to operating revenues, 61.01 per cent as compared with 60.44 per cent in 1920. Including also depreciation and taxes, licenses, etc., the ratio was 70.48 as compared with 76.07. As a result of the safety campaign there were 20 per cent less accidents in 1921 than in 1920, or a reduction of 30 per cent as compared with 1919.

Increased Earnings for Public Utilities.

A statement of the Alabama Power Company, Inc., operating subsidiary of the Alabama Traction, Light & Power Company, Ltd., Birmingham, Ala., says that the total gross earnings for the twelve months ended February 28, 1922, were \$4,586,170, an increase of \$246,568 as compared with the corresponding period ended a year previously. Operating expenses and taxes were \$2,198,300; increase, \$49,069; net earnings, \$2,387,870; increase, \$197,499. Gross earnings for January 1922 were \$427,261; increase, \$31,981 as compared with January 1921; February 1922, \$395,618; increase, \$11,832.

Shops Put Under Contract System.

A report from Sedalia, Mo., quotes F. K. Tutt, division mechanical superintendent of the Missouri, Kansas & Texas Railway, as saying that the shops at Sedalia, which have been closed since January 19, will be re-opened at once under the contract system on piecework, with A. S. Hecker & Co., railroad contractors of Cleveland, Ohio, in charge. There are about 500 employes, who will be given preference as to employment if they desire to return.

Important Coal Line Finished.

The Central of Georgia Railroad has completed its branch of 7½ miles from McCombs Switch to Overton, Ala., and coal is now being hauled out over the new line which follows the Cahaba River valley to the new mines of the Alabama Fuel & Iron Co. A spur from the branch is now being built by the County Coal Co. to its mines near Grant's Mills, a mile distance. Some sidings are also being constructed along the branch.

MORE BIG ORDERS FOR CARS AND ENGINES. Contracts Let Recently in the South Amount to About \$25,000,000.

The Baltimore & Ohio Railroad Co. has ordered 50 new cars for passenger train service, including 40 regular passenger cars, 2 dining cars, 3 combination baggage and mail cars and 5 postal cars. They will be built by the Pullman Company, Chicago, for delivery late in August or early in September and at an approximate cost of \$1,200,000.

Chesapeake & Ohio Railway Co. has approved plans to purchase equipment, and through Kuhn, Loeb & Co., and the National City Co., of New York, have sold \$7,635,000 of 5½ per cent equipment certificates to partly pay for the new cars, contracts for which will be awarded soon bids having been invited. The new equipment will include all steel passenger train cars thus: 30 passenger cars, 25 baggage express and mail cars, 8 combination passenger and baggage cars, and 5 dining cars; also freight train cars with steel underframes as follows: 1500 box cars, 500 ventilated box cars, 200 stock cars, and 50 refrigerator cars, all of 40 tons capacity, 1500 gondola cars and 1500 gondola cars with hopper bottoms, all of 57½ tons capacity.

The Louisville & Nashville Railroad Co., has ordered 1000 composite gondola cars of 55 tons capacity from the Chickasaw Car & Shipbuilding Co., at a cost of more than \$1,500,000. They will be built at the Westfield plant near Birmingham, Ala., and are to be delivered as rapidly as possible. The railroad has also ordered 1000 similar cars from the Cambria Steel Co. The Atlantic Coast Line has ordered 100 phosphate cars from the Chickasaw plant.

Missouri, Kansas & Texas Railway is about to buy 2000 automobile cars of 40 tons capacity, bids having been received up to April 25. The company is also reported about to order 30 passenger cars.

The Southern Railway's order for 30 mikado type locomotives from the Richmond Works of the American Locomotive Co. will be distributed 10 each to the Mobile & Ohio, the Alabama Great Southern, and the Cincinnati, New Orleans & Texas Pacific lines of the system.

Tennessee Central Railway's equipment order, it is announced at Nashville, will include 350 gondola cars, 50 box cars and 50 stock cars for freight service besides 4 passenger cars and 2 combination mail and express cars. An order for 8 mikado type locomotives has already been given to the American Locomotive Co.

Wichita Falls & Southern Railroad has ordered 2 mogul type locomotives from the Baldwin Locomotive Works.

Southern Pacific Railway has received bids for 2000 automobile cars.

Norfolk Southern Railroad is reported contemplating the purchase of 5 locomotives.

Norfolk & Western Railway has ordered 4000 all steel hopper cars of 70 tons capacity, contracts being distributed thus: Pressed Steel Car Co., 2000; Standard Steel Car Co., 1000; American Car & Foundry Co., 1000.

Tennessee Coal, Iron & Railroad Co. has ordered 4 locomotives from the American Locomotive Co.

Chesapeake & Ohio Railway Co. has received bids for 50 passenger cars.

New Orleans Railway & Light Co., J. D. O'Keefe, receiver, New Orleans, La., will purchase 100 new street cars at an approximate cost of \$1,000,000.

Oil Production Great Benefit to Rock Island.

In its annual report for 1921 the Chicago, Rock Island & Pacific Railway Co. says that the most important development along its lines for many years was the increase in traffic obtained from the discovery of oil fields. In January 1921 the first oil well was "brought in" at Eldorado, Ark., and

since then 479 producing wells have been developed in that field, of which 462 were oil wells. The aggregate daily production from the field has been about 38,000 barrels. Up to January 31, 1922 a total of 3,855,840 barrels had been moved by rail, of which the company hauled approximately 88 per cent. The company's right of way extends throughout the length of the field, about 12 miles. While no great production has been developed in this right of way, the company has profited greatly from the traffic development. In 1920 the earnings of the El Dorado station on all freight traffic were about \$300,000, and 1921 they had increased to about \$2,700,000.

There have also been new oil developments in the vicinity of Duncan and Walters, Okla. The field at Mexia, Tex., which was developed in 1921, promises, it is remarked, to be a much larger producing field than the El Dorado field. It is situated on the Trinity & Brazos Valley Railway of which the Rock Island is one half owner, the other half being owned by the Colorado & Southern Railway.

President J. E. Gorman presents a striking contrast between the results of operation under private control and Federal control. He says that after paying all fixed charges and taxes during the year the company showed a balance of income available for dividends of \$5,780,259.22 of which \$3,567,495. was applied to payment of the full dividends on the preferred stock leaving a surplus credited to profit and loss of \$2,212,564.22 equivalent to 2.95 per cent on the common stock. This latter was an increase of \$1,116,894.18 as compared with 1920.

Concerning the reduction of rates on grain and grain products and on live stock and other agricultural products which went into effect in January, President Gorman says that although there was an increase in traffic there was a substantial decrease in gross revenues as a result, which was offset only by the most rigid economy. The only cure for the situation as the company sees it is further reduction in operating costs, "including the restoration of labor to its old efficiency on a fair wage basis."

The purchase of 49 locomotives and 250 freight cars was financed through the National Railway Service Corporation, 60 per cent of the price being obtained by the Corporation from private sources and 40 per cent from the Government, the latter secured by a second lien on the equipment. The total value of these engines and cars is \$3,941,352.

The corporate income account of the system shows total railway operating revenues for 1921, \$139,272,024.01; decrease as compared with 1920, \$2,754,127.51; total railway operating expenses, \$112,953,057.19; decrease, \$18,545,646.48; net revenue from railway operations, \$26,318,966.82; increase, \$15,791,518.97; total railway operating income, \$20,634,009.36; increase, \$15,777,453.45; total income, \$23,051,831.35; increase, \$16,414,006.32; net income, \$5,780,259.22; increase, \$13,912,152.97; (last year there was a deficit of \$8,131,893.75 in this item), balance of income available for dividends, \$5,780,259.22.

The total assets are \$490,030,874.41.

\$9,300,000 Equipment Certificates.

The Southern Railway Co. has asked the Interstate Commerce Commission for authority to issue \$9,300,000 of equipment trust certificates at 5½ per cent interest and maturing in thirty semi-annual instalments to provide for its new equipment purchases.

Receivers Appointed.

L. H. Hole, Jr., of Greensboro, N. C., has been appointed receiver for the Carolina & Yadkin River Railroad, 40 miles long from High Point to High Rock, N. C., according to a report from Greensboro, the receivership being created on a petition filed by the North Carolina Public Service Co. alleging a debt of \$10,000.

GOOD ROADS AND STREETS

States Receiving Surplus War Materials for Roads.

A steady supply of surplus war materials suitable for highway construction is being distributed to the various states by the Bureau of Public Roads, which is acting as a clearing house, and a force of some 275 men is kept in the field taking inventories and preparing the materials for shipment. Lists of the supplies available are sent to each State highway department regularly and a period of 30 days is allowed for requisitions to be made. The material is allotted to the states on the same basis as Federal aid for road construction, a value being placed on each item and records kept of the total amount of materials distributed to each state. Up to February 1 the value of the material thus distributed was \$126,000,000, of which \$90,000,000 represented motor vehicles and similar equipment.

An inventory was recently taken at Camp Grant, Rockford, Ill., of supplies valued at about \$40,000,000, most of which will be available for highway construction. The work is being rushed so that the supplies may be distributed early in the season and the camp cleaned up before August 1.

Other war surplus supplies recently made available for distribution are located at Schenectady, N. Y.; Watertown, Mass.; and Dover, N. J. They include 200 car loads of brick, half of which are suitable for road work; 5,000,000 pounds of nails, 1,000,000 pounds of staples; 1,000,000 square feet of concrete reinforcing mesh; 200,000 monkey wrenches; and 133 carloads of picks and pick handles.

Thorough Tests of Blast Furnace Slag.

Blast-furnace slag as a material for concrete road construction is to be thoroughly studied by the Bureau of Public Roads. With the enormous demand for road-building material, officials say, economy demands the use of material close at hand whenever possible, and the bureau is now conducting investigations of different materials with this in view.

Great quantities of slag are to be found at blast furnaces in various parts of the country, and samples from 32 widely scattered plants have been collected and will be made into concrete, and then elaborately tested for resistance to wear, strength, water absorption, and general utility. These results will be compared with similar tests made on other materials now generally used.

In addition to the laboratory tests it is possible that the experiments will be followed by an inspection of a number of concrete roads built with slag as the coarse material. These roads will be selected in various parts of the country, and reports together with the laboratory tests, will furnish reliable information as a basis for action.

Notes on Good Road Construction.

Hughey Bros., Memphis, have the contract for construction of 9.98 miles of Federal aid highway between the Madison county line and Brownsville in Haywood county, Tenn., at a cost of \$320,179.

Smith, Pitts & Son, Mt. Pleasant, Tenn., are building 15.65 miles of chert road in Lawrence county, Tennessee, between Lawrenceburg and the Wayne county line costing \$103,854.

The Bank of Commerce & Trust Co., of Memphis, Tenn., has purchased the road bond issue of \$387,000 of Jackson county, Miss., and Federal aid for a similar amount is assured.

Leo. E. Koehler, county engineer, Kansas City, Mo., has completed plans for road improvements to cost \$275,000. Approximately nine miles of roads will be built immediately.

John J. Munding has completed plans for a full highway program to cost approximately \$625,000 for Baton Rouge, La. This includes 23 miles of paving, the necessary drainage work, concrete bridges and necessary canal work. Sewer extension will cost over \$125,000.

Paving Brick Reduced to Seven Types.

Four months ago there were 66 types and sizes of vitrified paving brick being manufactured in this country, specified and used in paving streets and highways. Today there are only seven recognized types. This elimination has resulted from the co-operative action of engineers representing the principal national engineering associations, the Bureau of Simplified Practice of the U. S. Department of Commerce, and representatives of paving brick manufacturers. It is planned to hold another meeting in March, 1923, at which time all data regarding 1922 manufacture and sales will be available, and until that time no further eliminations will be made.

Two Road Contracts Let.

Birmingham, Ala., April 22.—[Special.]—Contracts for construction of the Warrior-Robbins and the Ensley-Mulga roads were let this week to C. P. Parsons at \$61,300 and to the Independent Paving Co. at \$223,020. Work will begin shortly, and together with the other road work in the vicinity a big mileage of paving is in progress or will be under way in the near future.

Lumber Production and Shipments Increase.

New Orleans, La., April 21.—[Special.]—Reports from 131 mills of the Southern Pine Association for the week ended April 14 show orders, amounting to 87,171,110 feet, or an average of 665,428 feet per mill, compared with the average of 701,712 feet for the preceding week. Production amounted to 76,936,674 feet, an average of 587,303 feet compared with 564,498 feet for the week of April 7. Shipments increased along with production, and amounted to 3923 cars containing 83,775,665 feet, averaging 639,509 feet per mill, whereas the previous week's average shipment per mill was 589,932 feet. However, despite the increased shipments, the increase in "orders on hand" during the week amounted to 1.28 per cent, and the average unfilled orders at the end of the week were 2,057,742 feet, which is far above the figures for many weeks.

Shipments during the week were 8.89 per cent above production. Orders were 13.30 per cent above production and 4.05 per cent above shipments.

The summary report is as follows:

	Cars	Feet
Orders on hand beginning of week.....	12,464	266,168,720
Orders received during week.....	4,082	87,171,110
Total.....	16,546	353,339,830
Shipments during week.....	3,923	83,775,665
Orders on hand end of week.....	12,623	269,564,165

Florida Engineers and Architects to Meet.

The annual convention of the Florida Engineering Society and the Florida Association of Architects will be held at Daytona, Fla., May 15 and 16. A joint exhibition of contractors and builders supplies will be a feature of these conventions, which are open to the public and an unusual opportunity will be afforded for the display of the many materials and appliances in which contractors and architects are interested. Representatives and firms are invited to display their products or show photographs and circulars. Any additional information desired may be secured from John A. Rogers, Secretary, Daytona, Fla.

TEXTILE

Contract Awarded for Mill Addition.

A contract has been awarded by the Ranlo Manufacturing Co. of Gastonia, N. C., for the erection of a 32-foot, 1-story addition to its mill, to provide space for 10 Crompton & Knowles looms. The engineers are Lockwood, Greene & Co. of Atlanta, Ga.

Cotton Mill to be Enlarged.

A one-story and basement, 80x82-foot addition to its mill will be erected by the Lily Mill & Power Co., of Shelby, N. C. Lockwood Greene & Co., Healey Building, Atlanta, Ga., are the architects-engineers and the Fiske-Carter Construction Co. of Greenville, S. C., are the contractors. The addition will be equipped for finishing the yarn produced at the mill. The cost is estimated at \$25,000.

Large Bleachery to be Erected.

Griffin, Ga., April 15—[Special.]—The Lowell Bleachery of Lowell, Mass., will erect a piece goods bleaching and finishing plant at Experiment, Ga., to process the product of the Kincaid Manufacturing Co. The new plant will be known as the Lowell Bleachery South. The buildings will include: 2-story finishing plant, 207x105 feet; 1-story bleachery, 251x116 feet; 2-story engine house, 73x54 feet to be equipped with 2 boilers; warehouse, 102 feet square. These buildings are to be of standard mill construction. A reinforced concrete reservoir with a capacity of 1,000,000 gallons of water is also included in the plans. The Fiske-Carter Construction Co. of Worcester, Mass., and Greenville, S. C., are the contractors and Birger Petterson care Lowell Bleachery, Lowell, Mass., is the Engineer.

Extensive Improvements Planned and Output to be Doubled.

After a suspension of night work for more than a year, the Ware Shoals Manufacturing Co. of Ware Shoals, S. C., will employ additional operatives and resume full time operations, running day and night. The output will be double that of last year and plans are being formulated for extensive improvements during 1922. It is proposed to enlarge the bag factory or build an additional plant, and to erect a bleachery, each to be of sufficient capacity to handle the entire production of the Ware Shoals mill.

The mill village will be enlarged and plans have been prepared for 100 or more houses for the employees. These dwellings will be of the cottage or bungalow type, contain 4, 5 or 6 rooms each, and be improved with electricity, running water, etc. A large apartment or rooming house is also under consideration.

Textiles Rank as Third Mexican Industry.

Monterey, Mex., April 20—[Special.]—Development of the textile industry in Mexico now holds third position in value of production. The mineral industry comes first and oil production second. According to official reports recently made to the Mexican Government the textile mills of the country not only manufacture cotton goods, yarn and thread to supply the home demand, but also considerable quantities of their output are exported.

In 1909 about 142 textile factories were in operation in Mexico situated chiefly in the States of Puebla, Laxcala, Vera Cruz, Mexico, the Federal District and other regions, which gave employment to 32,147 people. The aggregate gross earnings of these factories is said to have been 50,

651,357 pesos, equivalent to \$25,325,678 United States money during that year. During 1910 and 1911, the number increased to 145.

No data is available covering the revolutionary period. The figures obtainable since then show that 118 textile factories existed in 1919. In 1920 the number increased to 131. In 1921 153 factories were in operation employing 43,700 men.

The state and Federal taxes leveled on the textile industry exceed those paid by miners and oil men, although it ranks third in importance.

Textile Mill Notes

Capitalized at \$500,000, the Indera Mills Co. of Winston-Salem, N. C., has been incorporated by F. H. Fries, W. L. Siewers and J. L. Keiger. The new company will continue the plant heretofore operated under the partnership plan, manufacturing hosiery and other knit goods.

Buildings to be equipped as woolen mill will be erected at Parsons, W. Va., by the Philippi Blanket Mills of Philippi, W. Va. It is understood that the machinery will be removed from the present plant at Philippi.

A boiler room will be erected by the Fulton Bag & Cotton Mills of Atlanta, Ga. The engineers are J. E. Sirrine & Co. of Greenville, S. C.

An amendment to the charter of the Miller Cotton Mills of Waco, Tex., has been filed, increasing the capitalization from \$1,000,000 to \$1,750,000. The increase is intended to provide for plant enlargement.

A one-story and basement, 80x82-foot addition to its mill will be erected by the Lily Mill & Power Co., of Shelby, N. C. Lockwood Greene & Co., Healey Building, Atlanta, Ga., are the architects-engineers.

Commendations, Kicks and Comments

When Railroads Disregard the Public.

F. P. ERVIN, PROP., Clarendon Roller Flour Mills, Manning, S. C.—We wish to express approval in our humble way of your article in the RECORD of March 9, relative to the railroad situation—past and present. It shows conclusively as nothing we have read the chain of antagonism forged by the railroad management in their disregard of the public they serve.

We trust this article will be read generally by railroad authorities and that attention will be given by them to abuses cited in it, that a better feeling may come about between all parties concerned.

Complete Information.

L. H. CLARK, Crowley, La.—Please find enclosed New York Exchange for \$6.50 covering my subscription for 1922.

I would feel that my information on matters of the South and the Nation would not be complete without the MANUFACTURERS RECORD. I have followed your fight for agriculture etc., and your arraignment of the acts of the Federal Board have been just. The whole Nation should stand by you and put the RECORD on their desks.

A Steady Subscriber for 25 Years.

S. C. DOWELL, Prest., Dowell Land Company, Walnut Ridge, Ark.—I consider your magazine one of the best that is published, and I don't see how any business man can get along without it, I have not missed an issue for over 25 years.

Hits the Nail.

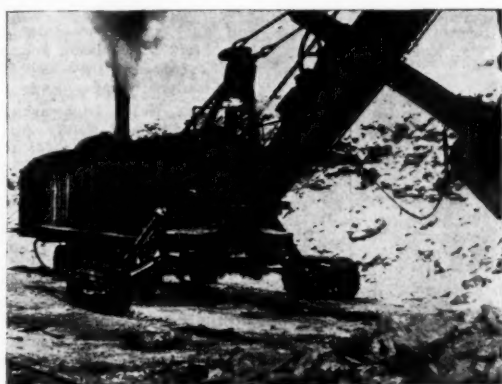
N. UNDERWOOD, builder, Durham, N. C.—Inclosed find check for \$6.50. I read your RECORD with the greatest delight and profit to me. You always hit the nail on the head as to our financial conditions.

MECHANICAL

Caterpillar Traction for Big Shovels.

Preparations to equip all sizes of railroad type shovels with caterpillar traction have recently been completed by the Bucyrus Company, South Milwaukee, Wis., and the accompanying illustration shows a shovel so mounted at work on a railroad job. The mounting consists in general of two forward caterpillars, replacing the jack arm, and two rear caterpillars mounted under the back end of the shovel. Both front caterpillars are drivers and they can swivel and adjust themselves to uneven ground. The two rear caterpillar units are mounted on the same frame and they have been designed with sufficient strength to permit the crossing of holes and ditches without the delay incidental to filling in. This installation, it is stated, may be made on all sizes of railroad type shovels up to the heaviest now built.

It is claimed that the principal advantages of mounting these shovels on caterpillars are as follows: No time lost in moving up; an ordinary move requires only about ten seconds. There are no rails to lay, no jacks to release and set, no stops during operation to reset jacks. Shovel is always ready to dig, shovel does not have to face blasting, may be moved back or turned around quickly. There is no track trouble and the shovel can always dig at the most effective distance



LARGE SHOVEL MOUNTED ON CATERPILLARS.

from the bank, because the short moves are easy to make. Boulders rolling close to the shovel do not cause delay and there is lighter work for pitmen; it saves from two to four pitmen, sometimes more. A shovel so mounted, it is stated, can travel and work on approximately the same character of ground as a shovel mounted on railroad trucks and blocking need be done only under the caterpillars.

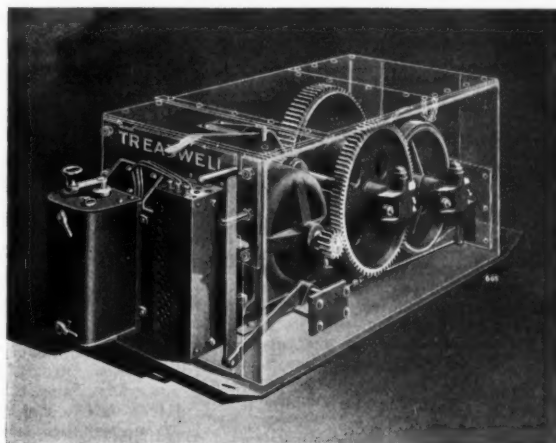
Steering is accomplished through the rear caterpillars.

Small, Portable Hoist for Handy Use.

A small, self-contained portable hoist radically different from previous equipment of this kind, has recently been placed on the market by the Treadwell Engineering Co., Easton, Pa. It was developed with the idea of providing a machine for light hoisting and hauling, one that would be mechanically dependable and safe.

This new type of hoist, it is remarked, is an ideal labor saver on new construction, plant maintenance, repair work, etc., as it eliminates the need for from two to six men. It may be used for skidding cars to and from loading platforms, or for "spotting" heavy machinery and other loads in warehouses, stock rooms, etc. It is a convenient device for which every production manager can find innumerable applications.

The mechanism is enclosed in a heavy casing of sheet steel plate mounted on a half inch sole plate. The unit casting forms the support for the drum and gear shaft bearings, which latter are electric steel castings fitted with renewable bronze bushings and are lubricated from a waste



HOIST WITH CASING REMOVED.

packed oil reservoir. The controller box and resistance panel are necessarily mounted on the exterior of the casing, but all other mechanism, including the motor, is entirely enclosed. On top of the casing is a door giving access within.

At the end of the hoist where the operator stands is a clutch lever which is automatically locked when the clutch is either in or out and control of the load is accomplished by a powerful band brake with hand lever conveniently placed, this being normally latched in an off position. All parts, excepting the barrel of the rope drum are of steel. The drum is 8 by 12 inches and can carry 1500 feet of $\frac{3}{8}$ inch wire rope; the hoisting capacity is 1500 pounds at a speed of 100 feet a minute. The motor is 5 horsepower and runs at 1200 revolutions per minute. The hoist outside measures 2 by 2 feet by 4 feet 6 inches.

FOREIGN NEEDS

[The MANUFACTURERS RECORD receives many letters from abroad asking for information about American goods, and others, from men who wish to represent American houses. Without assuming any responsibility for these concerns, we publish a summary of the foreign letters of inquiry from week to week.]

Hosiery, Dry Goods, Etc.

GRAY-SMITH COMPANY, 110 Wellington St., W., Room No. 1, Toronto, Canada.—We are chiefly interested in hosiery, men's and women's; voiles, batistes, all cotton wash goods or any sundry lines peculiar to the dry goods and men's furnishing trade.

Salt Grinding and Refining Machinery.

CHARLES R. C. NAXSON, 24 Lopez Street, Mexico City, Mexico.—I wish to establish connection with manufacturers of machinery to grind and refine crude or natural salts; that is, to refine the salt as it comes out of either a mine or the sea.

Grain, Flour, Furniture, Leather, Etc.

LOUIS BOUTROU, Sousse, Tunisia, Africa.—I am very much interested in the following American products: Wheat, (hard and soft) flour, furniture, leather for shoes, etc. I would be glad to represent some large houses manufacturing these products. I would also like to have someone represent me in your country as I am exporting olive oil, soap, etc. I may also add that I am interested in sugar, coffee, tea, etc., and import large quantities of these products.

Construction Department

EXPLANATORY.

The MANUFACTURERS RECORD seeks to verify and obtain additional information regarding all enterprises reported in its Construction Department, by direct daily correspondence. Further facts of news value are published later from telegraph, mail and representatives' reports. We appreciate having our attention called to errors that may occur.

DAILY BULLETIN.

The Daily Bulletin of the MANUFACTURERS RECORD is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$20.00 per year.

Bridges, Culverts and Viaducts.

Ala., Birmingham—State Highway Dept., Montgomery, Ala., let contract to Columbus Construction Co., Columbus, Ga., at \$49,571.46 to build concrete and steel bridge across Cahaba River, on Birmingham-Montgomery Highway, connecting Jefferson and Shelby Counties; concrete approaches; steel span. W. S. Keller, State Highway Engr., Montgomery.

Ala., Cullman—State Highway Dept., Montgomery, Ala., let contract to Converse Bridge and Steel Co., Chattanooga, Tenn., at \$26,656, to build bridge across Mulberry Fork, Warrior River; Blount and Cullman Counties; W. S. Keller, State Highway Engr., Montgomery.

Ala., Montgomery—State Highway Dept., Montgomery, Ala., plans building Rooster Bridge over Tombigbee River; Earl North, U. S. Dist. Engr., Mobile, Ala.

Fla., Sanford—Seminole County Comms., will build steel bridge at Osteen Ferry, and resurface roads; voted \$100,000 bonds.

Ga., Athens—Clarke County will construct bridges and roads; vote on \$100,000 bonds. Address County Comms.

Ga., Atlanta—City, will construct viaduct, 1900-ft. long, 60-ft. 10-ft. sidewalks on each side, starting on Spring St. at Marietta and ending on Madison Ave. and Mitchell; reinforced concrete and steel encased in concrete; approaches on Alabama and Hunter Sts.; cost \$725,000; bids until July 15; L. W. Robert & Co., Archts. Lately noted. (See Mch. Wanted—Viaduct Construction.)

Ga., Athens—Clark County Comms., will build bridge and construct roads; vote May 17 on \$100,000 bonds.

Ga., Dublin—Laurens County Comms., Road and Revenues let contract to A. J. Glover, Macon, Ga., at \$12,992.90 to build reinforced concrete bridge over Rocky Creek, on Dublin-Cochran Road; Federal Aid Project No. 240; State Aid Project S-12-20; E. N. Parker, Div. Engr. (Lately noted.)

Ga., Millen—State Highway Dept., Jenkins County Board of Comms., Roads and Revenues, let contract to Connerat-Quist Contracting Co., Savannah, Ga., at \$17,343.23, to build Millen bridge over Ogeechee River; W. R. Neel, State Highway Engr., Peachtree Bldg., Atlanta; B. P. McWhorter, Div. Engr., Savannah.

Ky., Freeburn—Toll Bridge Co., will build steel wagon bridge across Tug River between Freeburn and Delorme, W. Va.; invite bids. (See Mch. Wanted—Bridge Construction.)

La., Natchitoches—Natchitoches Parish Police Jury, let contract to A. D. Lambert & Co., Alexandria, La. to build concrete pile trestle bridge with steel channel span over Cane River at Monette Ferry Crossing, on Alexandria-Natchitoches highway.

Mo., Doniphan—State Highway Dept., Jefferson City, Mo., will build two 16-ft. reinforced concrete slab spans, 18-ft. roadway on State highway from Doniphan to Poplar Bluff; 2 concrete abutments, concrete pier; Ripley County, Federal Aid Project No. 91, Section B; bids until May 1; M. S. Murray, Div. Engr., Silkeston, Mo. Lately noted. (See Mch. Wanted—Bridge Construction.)

Mo., Fulton—State Highway Dept., Jefferson City, Mo., let contract to Riley & Bailey Construction Co., St. Louis, Mo., at \$8,712 to build two 50-ft. pony truss spans on State road from Jefferson City to Fulton, over Middle River; concrete floors; 18-ft. road way; 2 concrete abutments; concrete pier; Callaway County, State Aid Project No. 20,143; H. D. Griffith, Div. Engr., De Soto, Mo. (Lately noted.)

Mo., Independence—Jackson County plans constructing approaches for bridge over Chicago & Alton tracks at Norwood Ave.; Leo E. Koehler, County Highway Engr.

Mo., Lancaster—State Highway Dept., Jefferson City, Mo., plans building 20-ft. reinforced concrete slab span on State road from Lancaster eastward and westward; Sta. 459 plus 58; 18-ft. roadway; 2 reinforced concrete abutments; Schuyler County, State Aid Project No. 20,144; also build 20-ft. reinforced concrete slab span on State road from Lancaster eastward and westward; Sta. 423 plus 93; 18-ft. roadway; 2 reinforced concrete abutments; Schuyler County, State Aid Project No. 20,144; bids until May 4; M. J. Hanick, Div. Engr., Howe Bldg., Macon, Mo.

Mo., Monticello—State Highway Dept., Jefferson City, Mo., will build bridge over Wyconda River, on State road southward and westward from Canton, Sta. 114; 85-ft. steel pony truss span; concrete floors; three 30-ft. reinforced concrete deck girder spans; 3 reinforced concrete bents; reinforced concrete abutments; new concrete cap to pier.

Bridge on State road from Canton southward and westward; 24-ft. reinforced concrete deck girder span; 2 reinforced concrete abutments; two 20 and 14-ft. reinforced concrete slab span; 2 mass concrete abutments; 18-ft. roadway.

Bridge over Canton Ditch on State road southward and westward from Canton; Sta. 272 plus 20; 30-ft. reinforced concrete arch span sprandrel filled; all Lewis County, Federal Aid Project No. 38.

Bridge on State road north and south through LaGrange Special Road Dist.; Sta. 262 plus 51; two 20-ft. reinforced concrete slab spans; 2 reinforced concrete abutments; mass concrete pier; 18-ft. roadway; Lewis County, Federal Aid Project No. 39; M. J. Hanick, Div. Engr., Howe Bldg., Macon, Mo.

Mo., Tusculumbia—State Highway Dept., Jefferson City, Mo., will build 20-ft. reinforced concrete slab span, 18-ft. roadway, 2

mass concrete abutments on State road from Tusculumbia to Pulaski County line, Sta. 101 plus 05; Miller County, State Aid Project No. 20,126; bids until Apr. 28; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo. (See Mch. Wanted—Bridge Construction.)

Mo., Versailles—State Highway Dept., Jefferson City, Mo., will build 20-ft. reinforced concrete slab span, 18-ft. roadway, 2 reinforced concrete abutments bridge over State road from Versailles to Linn Creek; Sta. plus 17; Morgan County, State Aid Project No. 20,156; bids until Apr. 29; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo. (See Mch. Wanted—Bridge Construction.)

N. C., Elkin—Town Comms., will build 200-ft. reinforced concrete bridge across Elkin Creek; deck girder and arch types; pave sidewalks; bids until May 8; Pegram and Reynolds, Const. Engrs., 501 Wachovia Bank Bldg., Winston-Salem, N. C. (See Machinery Wanted—Bridge Construction.)

N. C., Kinston—State Highway Coms., Raleigh, N. C. will build bridge over Moccasin River at terminus Lenoir road.

N. C., Winston-Salem—Forsyth County Comms., will build 90-ft. steel bridge across Center Belevs Creek at Robinson and Strader's mill, and 100-ft. bridge over East Belevs Creek; D. W. Harmon, County Engr.

Okla., Muskogee—State Highway Dept., Oklahoma City, will build 210-ft. pin connected truss with 50 and 75-ft. riveted truss approach spans on concrete piers and abutments, 25 mi. south east of Muskogee; cost \$40,000, including approach fills.

S. C., Lexington—State Highway Dept., Columbia, S. C., will build reinforced concrete bridge, on Columbia-Charleston highway; four 22-ft. spans; two double 10x8-ft. and triple 10x8-ft. reinforced box culverts; 1800 lin. ft. untreated piling; 47,270 lbs. steel reinforcement; Lexington County, Federal Aid Project No. 146; bids until May 5. (See Mch. Wanted—Bridge Construction.)

S. C., Columbia—State Highway Dept., will build creosoted timber trestle approach to Wateree River bridge, cost \$8000; Richland County, Federal Aid Project No. 106; bids until May 3. (See Mch. Wanted—Bridge Construction.)

S. C., Greenwood—Greenwood County Comms., plan building low water bridge on Turkey Creek; 3 span; plan building 40-ft. steel span bridge with wood approaches over Horn's Creek on Martintwon Road, near Republican Church.

Tenn., Brownsville—State Highway Coms., Nashville, Tenn., let contract to Estes-Williams-Ragsdale Co., Memphis, Tenn., at \$15,875.25 to build bridges over 20-ft. span on State Highway No. 1, between Madison County line and Brownsville; Haywood County, Federal Aid Project No. 70; D. Q. McComb, Ch. Engr.

Tenn., Nashville—Nashville, Chattanooga & St. Louis Ry., H. McDonad, Ch. Engr., will expend \$160,000 to build 2 bridges over Harpeth River, and re-locate tracks.

Tex., Dickinson—Galveston County, John M. Murch, Auditor, Galveston, let contract to Harris & Powell, Tyler, Tex., at \$23,420, to build reinforced concrete pile trestle bridge, consisting of thirteen 20-ft. spans, 30-ft. center span, 25-ft. roadway; 650 cu. yds. concrete, 7000 cu. yds. earth filling, etc.; C. C. Washington, Engr.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., New Braunfels—City, Chas. Alves, Mayor, will build bridge over Comal River; improve streets; voted \$75,000 bonds.

Tex., Palo Pinto—Palo Pinto County Comms. Court, E. L. Pitts, County Judge, will grade and construct structures on 3 mi. Minus Road, from Strawn to Dist. line; bids opened Apr. 25; G. W. Courter, County Engr. (See Mch. Wanted—Bridge Construction.)

Tex., Salado—Bell County let contract to E. Blankenstein, Temple, Tex., at \$19,999, to build 18 20-ft. concrete slab bridge over Salado River; J. S. Treadway, County Engr.; J. W. Sutton, County Judge.

Tex., Texarkana—State Highway Dept., Austin, Tex., will build 150-ft. span and approach; cost \$100,000; Hess & Skinner, Engrs., Dallas, Tex.

Tex., Uvalde—Uvalde County will construct 50 mi. asphalt and approximately 100 mi. other feeder roads; approximate cost \$900,000; bids until May 15 for 16 mi. asphalt road on Sabinal-Knipa road; State Highway No. 3; balance about 3 months later; gravel and gravel asphalt surface; Federal Aid assured; L. W. Scheide Mantel, County Engr., Sabinal, Tex.; Ditzler H. Jones, County Judge. (See Mch. Wanted—Road Construction; Paving Materials; Paving Equipment.)

Va., Gate City—Va. State Highway Comsn., Richmond, Va., will build 105-ft. bridge over North Fork of Clinch River on road between Purchase and Lee County Line; 50-ft. steel truss and two 25-ft. reinforced concrete beam spans; 20,000 lbs. steel; bids until Apr. 25. (See Mch. Wanted—Bridge Construction.)

Canning and Packing Plants.

Fla., Fort Pierce—M. E. Fidler, Miami, establish fish curing and packing plant.

Fla., Ocala—H. W. Tucker will erect packing house; 203x36 ft.; brick; Ray & Tomason, Contrs.

Ga., Albany—American Pimento Products Co., capital \$50,000, inceptd. by Tom O'Connor, Marie Louise O'Connor.

N. C., Canton—W. T. Barker, Box 736, will install cannery. (See Mch. Wanted—Canning Equipment.)

S. C., Charleston—Home Dressed Meat Co., capital \$5000, inceptd. with E. Chamberlain, Prest.; C. C. Hinson, V.-P.; W. L. Nelson, Secy.

S. C., Greenwood—Greenwood Fruit Co., T. St. J. Goodwyn, Prest. will erect plant; 100x37½ ft.; mill construction; cost \$15,000; Muldin & Chapman, Contr.

Tenn., Lenoir City—Civilian Club interested in erecting canning plant; Hastings Co., Chicago, will install machinery.

Tenn., Lenoir City—T. M. Breazeale will erect plant; 46x120 ft.; ordinary construction; work by local contractors; install \$16,000 machinery for canning tomatoes, beans, pumpkins and other vegetables; output 22,000 cans daily; Hastings Industrial Co., Chicago, Construction Engr.; lately noted. (See Mch. Wanted—Canning Equipment.)

Tenn., Nashville—Neuhoff—Neuhoff Packing Co., will erect fireproof building, cost \$17,000; install refrigerating machine, cost \$20,000; Foster Creighton, Const. Engr., Nashville. (Lately noted.)

Tex., Beaumont—Stedman Fruit Co., Ed. Stedman, Prest. will erect 130x300 ft. building; 2 stories; fireproof; install \$25,000 cold storage machinery; Stern & Mann, Archt., Little Rock; will let contract about June 1. (Lately noted.)

W. Va., Shenandoah Junction—Martinsburg Fruit Exchange, Martinsburg, W. Va., will erect apple packing plant.

Clayworking Plants.

W. Va., Wayne—Bricks—Wayne Brick Co.,

capital \$50,000, inceptd. by L. F. Adkins, C. D. Martin, W. F. Toney.

Coal Mines and Coke Ovens.

Ky., Harlan—Cumberland Valley Coal Co., organized by George W. Johnson and W. W. Landrum.

Ky., Hazard—New Duane Coal Co., capital \$100,000, inceptd. by A. S. Petrey and others; purchased mining plant on Lotts Creek, expend \$60,000 on improvements, including tippie, 25 miners houses, etc. (Lately noted.)

Ky., Louisville—Emmet O'Neal Coal Co., inceptd. by Emmet, Goodloe and J. T. O'Neal.

Ky., Pike County—Supreme-Elkhorn Coal Co., Ashland, Ky., capital \$175,000, inceptd. by E. E. Seaton, J. B. Thomas and others; plan immediate development; initial output 1000 tons.

Tex., Rockdale—Empire Fuel Corp., Neiswanger, Prest-Mgr., Dallas, Tex., increased capital from \$1,000,000 to \$5,000,000; changed name from Empire Fuel Co.; plan constructing first unit of carbonization and briquetting plant.

Va., Splashdam—Virginia Elkhorn Coal Mining Co., organized with K. S. Elswick, Mgr., Praise, Ky.; expend \$50,000 in developing several hundred acres coal land.

W. Va., Amigo—J. A. Wood Coal Co., capital \$50,000, inceptd. by J. A. Wood, Pratt, W. Va.; Fred G. and J. A. Wood, Jr., Amigo.

W. Va., Clarksburg—Jamison Coal & Coke Co. purchased 728.3 acres coal land in Lincoln and Fairmont Dist.; develop.

W. Va., Huntington—Margarette Coal Co., increased capital from \$300,000 to \$500,000.

W. Va., Iaeger—Pocahontas Red Ash Coal Corp., capital \$50,000, inceptd. by J. G. Magowan, Thomas A. Weeks, both Iaeger; J. R. Cameron, Bluefield, W. Va.

W. Va., Julian—St. George Coal Co., capital \$25,000, inceptd. by F. C. Fenimore, St. Albans, W. Va.; Elmer C. St. George, Charleston, W. Va.; Paul Fezko, Julian.

W. Va., Logan—McRoss Smokeless Coal Co., capital \$75,000, inceptd. by J. Jay Ross, H. A. McAllister and H. N. Clendenning.

W. Va., Monongalia County—Andrew M. Linn, Washington, Pa. purchased 286 acres coal land; develop.

W. Va., Morgantown—Taylor Fuel Co., organized by Marvin L. Taylor and others.

Concrete and Cement Plants.

Ala., Mobile—Cement Tile—National Floor Tile Co., capital \$144,000, inceptd. with W. D. Bellingsrath, Prest.; Henry C. Sackoff, Secy.

Md., Lauraville, P. O. Baltimore—Concrete Washtubs—Edward H. Apsley, contemplates erecting plant for mfr. of concrete washtubs.

Cotton Compresses and Gins.

La., New Orleans—Anderson, Clayton & Co. let contract to Foundation Co. to construct first unit of cotton warehouse and compress near Shreveburg; 1 story; fireproof; reinforced concrete; 900x250 ft.; equipped with gravity tanks on roof, sprinkler system, independent compartments, steel gates and window frames; switch tracks; cost \$300,000; will soon construct second unit.

Miss., Clarksdale—Clarksdale Seed & Gin Co., capital \$10,000, inceptd. by Jake Fink, Arthur Roseman, Louis Applebaum.

Tex., Robstown—Mebane Long Staple Gin, increased capital from \$26,000 to \$30,000.

Tex., Southland—Curtis-Reynolds Gin Co., capital \$12,000, inceptd. by E. R. Reynolds, F. W. Curtis.

Cottonseed-Oil Mills.

Tex., Clarksville—Clarksville Cotton Oil

Co., increased capital from \$100,000 to \$170,000.

Drainage Systems.

Mo., Trenton—Little Medicine Drainage Dist. No. 1 of Grundy Court, W. M. Morris, Clk. construct drainage system; bids until May 1. (See Mch. Wanted—Drainage.)

Okla., Tulsa—Drainage—Tulsa County Comms. let contract to Dalstrom Improvement Co. at \$33,737.76 to construct drainage system about Park View along Sand Springs Interurban line.

S. C., Olanita—S. R. Chandler interested in establishing drainage district, reclaiming about 10 mi. territory; contemplates the issue of \$50,000 bonds.

Electric Plants.

Ala., Evergreen—City will improve electric light plant; erect 30x50 ft. power house, concrete floor with shed for boilers; install engine generator sets, boilers, switchboard, pumps, etc.; W. W. Hill, Const. Engr., Auburn, Ala. (See Mch. Wanted—Electric Light Plant Equipment.)

Ala., Montgomery—Alabama Power Co., Thos. W. Martin, Birmingham, Ala. construct transmission lines to city limits of Sylacauga to distribute power and lights in town.

Ark., Charleston—E. C. Lichty, Fort Smith, Ark., is installing electric light plant.

Fla., Ft. Meade—City will erect electric light plant; corrugated iron; equipment ordered. Address The Mayor.

Fla., Safety Harbor—City, A. E. Shower, Clk., voted \$10,000 bonds for taking over plant, will install equipment for extension. (Lately noted.)

Fla., St. Petersburg—City votes June 6 (change of date) on \$300,000 bonds for electric light plant. Address The Mayor.

Fla., Tallahassee—City let contract to Georgia Electric & Construction Co., Columbus, Ga. to install white way system on College Ave.; 182 single globe standards.

Fla., Ybor City—Ybor City Business Men's Assn., Philip Licata, Prest. install white way in business section on Seventh St.

Ga., Tifton—City, W. T. Hargrett, Mayor, voted May 15 on \$45,000 bonds for electric light plant. (Lately noted.)

La., Shreveport—Leon I. Kahn, Commr. of Public Utilities, will install white way on Milan St., distance of 6 blocks.

Miss., Batesville—City votes May 1 on \$25,000 bonds for installing light plant. Address The Mayor.

Mo., Paris—City will improve electric light plant, either by addition of new unit, cost \$20,000 or rebuilding entire plant, cost \$40,000; W. B. Roolins, in charge.

Mo., St. Louis—Saxony Mills, 4th and Lombard Sts. will improve power plant; install 200 K.W. mixed pressure turbo generator unit with switchboard, cooling tower, etc.; D. Larkin, % Larkin Engr. Co., 424 3rd St., Const. Engr.

N. C., Belhaven—City, having plans prepared by Wm. C. Olsen, Const. Engr., Kinston, N. C. for doubling capacity of plant, install 200 H.P. crude oil engine, generator, switchboard, etc.

N. C., Vanceboro—City, R. B. Turner, Clk., will construct electric line from Vanceboro to New Bern, 18 mi., cost about \$14,000; 10 H. P.; lately noted. (See Mch. Wanted—Electric Equipment.)

Okla., Fairland—City votes April 25 on \$21,000 bonds to construct and equip electric light plant; L. C. Overmiller, Prest., Board of Trustees.

Okla., Muskogee—Oklahoma Gas & Electric Co., reported to erect \$1,000,000 electric plant.

Okl., Muskogee—General Power Co., capital \$2,000,000, inceptd. with J. F. Owens, Prest., will construct electrical generating plant near Fort Gibson; have site of 5 acres; central station initial capacity 15,000 K.W.; install turbo-generators of 5000 and 10,000 K.W. capacity; automatic stokers and bunker feeders; Geo. H. Wilmarth, local mgr.; H. M. Byllesby Co., in charge of construction.

Tenn., Nashville—City, J. O. Lankard, Commr. of Lights, appropriated \$90,000 for rebuilding electric power plant on 1st Ave.; install new equipment; T. J. Pentecost, Supt.

Tenn., Nashville—Davidson Light & Power Co. applied for franchise for transmission line along Louisville, Dickerson, Long Hollow and Springfield Pikes.

Tenn., Paris—Board of Public Works will extend electric light and sewer system; J. H. Weatherford, Consult. Engr., Porter Bldg., Memphis, Tenn.; W. H. Holman, City Engr.

Tex., Cuero—Texas Central Power Co., R. W. Morrison, Prest. reconstruct and repair dam.

Tex., Pioneer—J. A. Jackson has franchise for electric light plant.

Tex., Texline—City, H. H. Tate, Mgr., let contract to Gantt Baker Co., Oklahoma City, Okla., to erect \$10,000 electric light plant; 150 H.P.; cost of dam and power house, \$2000; E. W. Baker, Engr., Oklahoma City. (Lately noted.)

Va., South Hill—City, Ralph Jessup, Mayor will construct electric light system pole line, brick building, 1 frame building, foundation and boiler setting, setting all machinery steam and exhaust connections and hydraulic connections; 2 mi. water main and 6 mi. sewer; bids opened May 10; J. B. McCrary Engineering Corp., Engr., Atlanta, Ga.; lately noted. (See Mch. Wanted—Sewers, Water and Light Equipment.)

Fertilizer Plants.

Ga., Concord—R. F. Strickland Co., G. E. Strickland, Prest., will rebuild fertilizer and feed mill, burned at loss of \$75,000.

Flour, Feed and Meal Mills.

Mo., Independence—Good Morn Products Co. establish plant to mfr. self-rising flour and cereals.

Okl., Kingfisher—Kingfisher Mill & Elevator Co., capital \$100,000, inceptd. by J. R. F. W. and A. R. Lankard.

Foundry and Machine Plants.

Fla., Oldsmar—Machine Shop — Oldsmar Mfg. Co., organized with E. J. Jenkins, Prest.; Charles E. Ecker, Secy.-Treas.; mfr. cast iron pistons, etc.

Mo., St. Louis—Machine Shop—Artercraft Radio & Mfg. Co., capital \$25,000, inceptd. by O. R. Coblenz, M. H. Lyons and E. F. Scraper.

Tenn., Knoxville—Holston Foundry Co., capital \$10,000, inceptd. by C. H. Johnson, H. G. Fowler and C. E. Dawson.

W. Va., Charleston—Boilers — Universal Smokeless Boiler Co., increased capital from \$10,000 to \$50,000.

Gas and Oil Enterprises.

Fla., Jacksonville — Morgan-Sorgen Co., capital \$50,000, inceptd. with R. C. Morgan, Prest.; J. W. Sorgen, Jr., Secy.

Ga., Columbus—Flournoy Realty Co. will install 6300 ft. 4-in. gas mains in Peacock Woods, Subdivision, W. A. Coates Construction Co., Murrah Bldg., Contr.

La., Alexandria—City will vote soon on \$110,000 bonds for gas system; lately noted awarding contract to Southern Carbon Co., New York to construct 100 mi. gas line to city from Monroe gas.

La., Lake Charles—Tanner Oil Co., capital \$100,000, inceptd. with T. J. Tanner, Prest.; R. B. Sutherland, V.-P., both from Shreveport, La.; W. C. Strange, Singer, La.

La., Mer Rouge—Village of Mer Rouge, O. L. Gilson, Mayor, will construct 8 mi. of 4" gas line pipe; contemplated voting on \$25,000 to \$30,000 bonds; lately noted. (See Mch. Wanted—Gas Pipe.)

La., Plaquemine—Beaugard Oil Co., capital \$100,000, inceptd. by E. B. Schwing, E. J. Gay, both of Plaquemine, James J. Lewis.

Md., Baltimore — Brooks Mexican Petroleum Corp., 7 St. Paul St., organized with Martin A. O'Neill, 108 N. Fulton Ave., Wm. H. Stout, Park Heights Ave., Walter E. Brooks, New Orleans, La.; will construct 55,000 bbl. tanks; plans incomplete. (Lately noted.)

Okl., Ardmore—Hugh West Drilling Co., capital \$50,000, inceptd. by Hugh and J. H. West, Paul Uri.

Okl., Henryetta—Okmulgee Pipe & Supply Co., capital \$30,000, inceptd. by Ben Colchensky, E. Horner, L. Rudman.

Okl., Lawton — Oklahoma Independence Oil Co., capital \$300,000, inceptd. by J. M. Marshall, John O. Wolf, R. L. Robertson.

Okl., Muskogee—Oklahoma Producing & Refining Corp., construct additional batteries of stills and storage tanks; cost about \$250,000; work under engineering department of company.

Okl., Tulsa—Sinclair Crude Oil Co. will construct 55,000-bbl. storage tank, install steam booster station increasing capacity to 15,000 bbls. daily.

Okl., Tulsa—Gypsy Oil Co. is constructing ten 55,000-bbl. storage tanks.

Okl., Tulsa—Haney Oil & Gas Co., inceptd. by J. T. Haney, Benjamin F. Rice, Thomas D. Lyons.

Okl., Tulsa—Investment Petroleum Co., capital \$100,000, inceptd. by W. H. Peck, Ernest D. Marlin, H. G. Duke.

Tex., Beaumont—Ortex Oil Co., capital \$50,000, inceptd. by H. M. Higgins, E. L. Hall, O. H. Maschek.

Tex., Beaumont—Patton Oil Co., inceptd. by William C. Patton, Henry Mathis, W. D. Gordon.

Tex., Breckenridge—King-Mitchell Drilling Co., capital \$25,000, inceptd. by A. A. King, H. W. and C. E. Mitchell.

Tex., Dallas—Lewis Oil Corp., capital \$50,000, inceptd. by S. C. Lewis, E. H. Barber, S. A. Cochran.

Tex., Houston—Grebin Oil Co., capital \$40,000, inceptd. by F. C. Grebin, A. M. Yost, T. S. Tallafarro.

Tex., San Antonio—M. M. Sweetman, 1117 Central Trust Bldg. and others will construct gas pipe line.

Tex., San Antonio—San Antonio Public Service Co. advises they do not contemplate constructing any natural gas pipe line; will take gas from line constructed by M. M. Sweetman and others.

Va., Richmond—Peerless Oil Corp., A. L. Hawse, Secy. increased capital from \$250,000 to \$500,000.

W. Va., Charleston—Diamond Oil & Gas Co., capital \$50,000, inceptd. by L. B. Whitehurst, F. M. Driggs, I. O. Willard.

W. Va., Clarksburg—Little Hocking Valley Oil & Gas Co., 709 Prunty Bldg., organized

with G. W. McQuain, Prest.; Dr. H. V. Varner, V.-P.; R. L. Fetty, Secy.

W. Va., Harrisville—Star Oil Co., capital \$50,000, inceptd. by A. C. Woodford, B. F. Patton, Ed. Robinson.

W. Va., Parkersburg—West Virginia Gas Petroleum Co., capital \$100,000, inceptd. by Wm. D. Smith, Homer A. Price, Robt. E. Davis.

W. Va., Ripley—Ripley Gas & Oil Co., increased capital from \$25,000 to \$50,000.

Hydro-Electric Plants.

Ala., Birmingham—Alabama Power Co., Thos. W. Martin, Prest. will construct high tension transmission line from Coosa river developments to Leeds connecting with line from Jackson Shoals to Birmingham; cost about \$750,000 for 40 mi.; F. C. Weiss, Supt. Construction.

Va., Harrisonburg—City will vote on \$100,000 bonds to construct and install auxiliary electric generating plant to supplement present plant on Shenandoah River; lay 12-in. water main, etc.; cost about \$150,000.

Ice and Cold-Storage Plants.

Fla., Cantonment—J. F. Gayner, Pensacola, Fla. plans establishing ice plant.

Fla., Wauchula—A. G. Smith, J. G. Adams, and others interested in establishing ice plant.

Ga., Cuthbert—N. M. Weaver, reported to erect \$25,000 cold storage plant.

Miss., Jackson—Powell V. Vaill reported to erect ice plant.

Mo., Atchison—Home Ice & Cold Storage Co., controlling interest purchased by W. F. Pardise, contemplates extensive improvements and installation of equipment.

N. C., Shelby—A. P. Weathers, C. Turner and others, organize \$40,000 company for erection of ice and cold storage plant.

Okl., Muskogee—Oklahoma Gas & Electric Co., proposes erecting ice manufacturing plant.

Okl., Oklahoma City—Crystal Ice & Ice Cream Co., capital \$60,000, E. Owen, J. N. and R. C. Graves.

Tex., Beaumont—Stedman Fruit Co., Ed. Stedman, Prest.-Mgr. (lately noted to install refrigeration rooms, etc.) erect fireproof plant, install \$25,000 cold storage mch. (See Machinery Wanted—Cold Storage Machinery.)

Tex., Floresville—Floresville Ice & Cold Storage Co., organized with J. D. Spruce, Prest.-Mgr.; J. W. Spruce, Secy.-Treas.; will erect 40x50-ft. fireproof building; construction by day labor; install 10 ton raw water ice plant; equipment purchased.

Va., Appalachia—Norton Ice & Cold Storage Corp., plans erecting ice plant.

Va., Richmond—Southern Asbestos Mfg. Co., install mch. for mfr. of ice; equipment purchased.

Iron and Steel Plants.

Ala., Birmingham—Virginia Bridge & Iron Co., C. E. Michael, Prest., Roanoke, Va., reported to have purchased plant of Birmingham Steel Corp., rehabilitate; operate at capacity.

Tex., Fort Worth—Pipe, etc.—Armstrong Steel Co., reported to have taken over steel mills of George W. Armstrong Co., Inc., will enlarge, install equipment for mfr. of 3-in. pipe, cast iron and steel foundry, cotton the mill, and plate sheet iron and iron mills, also oil well supplies.

Land Developments.

Ala., Brewton—City will improve Burnt

Corn Creek for park. Address The Mayor.

D. C., Washington—D. C. Development Co., capital \$100,000, inceptd. by Robert N. Eggleston, Robert L. Calvert, Walter T. Parker.

Fla., Avon Park—Town, D. A. Sapp, Mayor, will expend \$65,000 for park improvements and street paving; John H. Hood, Engr. in charge. (Lately noted.)

Fla., Orlando—Digiiorri Fruit Corp., purchased 1700 acre citrus grove.

Fla., West Palm Beach—Wm. J. Conners, Buffalo, N. Y., purchased 5700 acres of land on Lake Okeechobee, will develop.

Fla., West Palm Beach—South Borough Development Co., capital \$10,000, inceptd. with Alfred H. Wagg, Prest.; D. F. Dunkle, V.P.; Bert Winters, Secy.

Ky., Ashland—Park Hill Realty Co., inceptd. by John F. Buckingham, T. A. Field, J. W. M. Stewart, purchased 175 acres land, subdivide into estates and lots.

Ky., Louisville—Castlewood Realty Co., lately noted inceptd., \$25,000 capital, organized with Chas. E. McMahon, Prest., 803 Inter-Southern Bldg.; C. J. Stenson, Secy.

Md., Baltimore—Griffith Realty Co., capital \$100,000, inceptd. by John Edwin Griffith, Wm. Penrose, Harry F. New.

Mo., Silkeston—C. M. Smith, Sr., Co., with capital \$100,000, inceptd. by C. M., M. E. and W. C. Smith.

Mo., St. Louis—Alva Improvement Co., capital \$10,000, inceptd. by A. H., L. W. and A. C. Grosse.

Mo., St. Louis—Brinkman Realty Co., capital \$10,000, inceptd. by C. W. Brinkman, Jr., M. C. Bartels, A. C. Maier.

N. C., Winston-Salem—Mayor James G. Hanes, interested in development of 25 acres of land for playground, etc.

Okla., Bristow—City will improve 65 acre tract for park; construct lake, erect assembly building, etc. Address The Mayor. (Lately noted voting \$20,000 park improvement bonds.)

S. C., Greer—W. A. Payne will develop Morrow Spring as playground.

Tenn., Chattanooga—Red Bank Development Co. purchased 70 acres, improve for sub-division; expend about \$10,000 on improvements.

Tex., Bryan—Midway Place Homesite Co., capital \$20,000, inceptd. by O. E. and W. R. Sanders, Mrs. J. E. Doane.

Tex., Denton—City purchased 20 acres of land for park purposes. Address The Mayor.

Tex., Lone Oak—Lone Oak Cemetery Association, lately noted inceptd., organized with T. P. Stilwell, Prest.; W. B. Bryan, V.P.; T. M. Weatherly, Secy.; develop cemetery; construct concrete copings, gravel driveways.

W. Va., Charleston—City, Grant P. Hall, Mayor, develop 35 acre site for playground.

W. Va., Wheeling—Suburban Realty & Improvement Co., capital \$50,000, inceptd. by Henry I. Hoffman, W. N. Sprague, Margaret Hoffman.

Lumber Manufacturing.

Ala., Fort Deposit—C. M. Hartsell reported to rebuild burned saw mill.

Ala., Mobile—Southern Pine & Hardwood Lumber Co., capital \$10,000, inceptd. by James S. Radcliffe and others.

Ala., Tunnel Springs—Hillside Lumber Co., capital \$50,000, inceptd. by Z. W. Wells and others.

Ark., El Dorado—Superior Lumber Co., capital \$50,000, inceptd., reported to take over Loutre Lumber Co., and mill of Hardwood Dimension Lumber Co.

Ark., Pine Bluff—Long-Bell Lumber Co., J. D. Tennant, V.-P., Kansas City, Mo. contemplates converting planing mill of Arkansas Short Leaf Lumber Co. into a finishing factory, using the lumber for furniture lengths, spokes, etc.; J. M. Sowards, Gen. Mgr. of Short Leaf Lumber Co. (Lately noted saw mill burned at loss of \$50,000.)

Fla., Lakeland—Dugger Lumber Co., capital \$100,000, inceptd. with J. A. Dugger, Prest., Winter Haven, Fla.; C. W. Gallagher, Secy.-Treas., Lakeland.

Fla., Loughman—Everglades Cypress Co.'s saw mill and lumber yards; loss \$175,000.

Ga., Hawkinsville—Standard Lumber Co., C. E. Baumgardner, Mgr. reported to rebuild burned plant; erect band saw mill with double deck; 10 hr. capacity of 45,000 ft.

Ga., Valdosta—J. N. Bray & Co. contemplates rebuilding plant. (Lately noted burned at loss of \$50,000 to \$75,000.)

Ky., Louisville—Ferguson Lumber Co., capital \$10,000, inceptd. by C. L. Croan and C. C. Ferguson, Louisville; W. N. Griffin, Shepherdsville, Ky.

Ky., Pineville—Miller-Gaddie Lumber Co., inceptd. by Robert B. Miller, B. E. and W. H. Gaddie.

Md., Brunswick—Brunswick Lumber Co., capital \$25,000, inceptd. by Russell M. Deener, L. M. Basehoar and Millard Buskirk.

Miss., Meridian—Mayerhoff Lumber Co., capital \$25,000, inceptd. by G. E. Mayerhoff, Mrs. L. B. Darnell and others.

Mo., Kansas City—Western States Lumber Co., capital \$275,000, inceptd. by W. F. Schooler, C. L. and E. T. McGrew.

N. C., Wilmington—Wm. Crawford Smith, Box 1128, interested in developing timber tract. (See Mch. Wanted—Woodworking Machinery; Timber Development.)

Okla., Tulsa—Home Lumber & Supply Co., capital \$50,000, inceptd. by D. W. Franchot, W. J. Atkins and John V. McDonnell.

S. C., Ridgeland—Chelsea Lumber Co., capital \$25,000, inceptd. with G. C. Wright, Prest.; C. W. Sutherland, Secy.

Tenn., Knoxville—National Tie & Lumber Co., capital \$100,000, inceptd. by W. M. Van Harlington, P. M. Frampton and H. H. Evans.

Metal-Working Plants.

Miss., Vicksburg—Metallic Coffins—J. H. Gleason, Atlanta, Ga. interested in establishing plant to mfr. of metallic coffins.

Okla., Oklahoma City—Aluminum—Du-Ra Aluminum Co., inceptd. J. F. Boettcher, O. J. Logan and others.

S. C., Sumter—Siphons—Sumter Super-Siphons Co., inceptd. with R. B. Belser, Prest.-Treas.; Irene A. Bryan, Secy.; H. D. Moise, Engr.

W. Va., Huntington—Gas Stoves—Winner Gas Stove Co., increased capital from \$50,000 to \$150,000.

W. Va., Parkersburg—Code Wire—Parkersburg Board of Commerce interested in establishment of \$200,000 plant for mfr. of rubber insulated wire, known as code wire; annual capacity 120,000 ft.

W. Va., Parkersburg—Wire—Seward Wire Co., Thomas J. Seward, Prest.-Mgr., 17 W. 42nd St., New York, will erect 80x200x60-ft. mill construction building; bids open; install insulated wire mch. for mfr. of rubber covered electric wire. (See Mch. Wanted—Insulated Wire Machinery.)

W. Va., Richwood—Metal Toys—C. C. Surface, establish plant to mfr. metal novelty toys.

Mining.

Ga., Columbus—Gravel—Union Gravel Co., inceptd. by M. H. Gardiner, H. B. Crawford and G. A. Ritch.

Mo., Ironton—Iron Ore—Iron Mountain Co. plans erecting iron ore crusher and separator, estimated cost \$800,000; daily capacity of mines 5 to 10 cars.

Mo., Poplar Bluff—Iron—Iron Exploration Co., subsidiary of the St. Louis Coke & Chemical Co., Granite City, Ill. reported to install crusher; washer and aerial tram for iron mining; development just started, disclosing a find of probably 2,000,000 tons.

Oka., Oklahoma City—Asphalt—Oklahoma Rock Asphalt Co., capital \$40,000, inceptd. by Moore C. Hess, Truman H. Dunn and R. W. Carson.

Tenn., Knoxville—Marble—Victoria Gray Marble Co., capital \$150,000, inceptd. by Craig H. Ross, H. Oscar Healy and W. H. Dickson; develop marble quarry; install equipment.

Miscellaneous Construction.

Fla., Fort Lauderdale—Canal, etc.—City will construct 40x6x2600-ft. tide water canal throughout northeast section of city to facilitate street drainage; remove about 20,000 yds. earth, 3000 yds. rock; estimated cost \$10,000 to \$12,000 for excavation only; H. C. Davis, City Engr.; votes April 22 on \$20,000 bonds for drainage and \$10,000 bonds for river front improvements. (Lately noted.)

Fla., St. Petersburg—Harbor Improvements City vote June 6 on \$50,000 bonds for harbor improvements. (Lately noted contract let for seawall and dock construction.)

Ga., Macon—Memorial Monument—Schnelder Marble Co., Americus, Ga., received contract to construct memorial monument for fallen heroes of 151st Machine Gun Battalion; granite construction with bronze tablets; approximate cost \$9000; Sidney Brown, Archt.

Ky., Louisville—River Front Improvements—Inland Waterways Co. leased river front, propose establishing river terminal docks, etc.

Okla., Ponca City—Tower—Ponca City Comms. let contract to T. M. Sutton, Oklahoma City to remove, dismantle and erect city's water tower.

Tenn., Chattanooga—Natarium—Chattanooga Natarium Co., capital \$25,000, inceptd. by Z. H. Taylor, W. D. Bowers and J. C. Shelton.

Tenn., Chattanooga—Swimming Pool—Chickamauga Quarry & Construction Co., received contract to construct natarium in Warner Park, pool to be 80x200-ft.; W. D. Bowers and Z. H. Taylor, promoters.

Tenn., Lawrenceburg—Monument—W. M. Dean Marble Works, Columbia, Tenn. has contract for construction of David Crockett monument; 18 ft. high, of bronze and granite.

Tex., Houston—Tunnel—City let contract for re-construction of N. Main St. tunnel, widen approaches, etc.

Va., Onancock—Dredging—U. S. Engr. Dept. let contract to Calkin Dredging Co., Norfolk, Va. to dredge Onancock river across the bar at river mouth and to a number of projecting shoals.

W. Va., Kegley—Dam—Virginian Ry. Co., H. Fernstrom, Ch. Engr., Norfolk, Va. reported to construct dam across Black Lick river for reservoir in case of drought, for its shops and tankage.

W. Va., Logan—Coaling Plant, etc.—Chesapeake & Ohio Ry. Co., F. I. Cabell, Ch. Engr., Roanoke, Va. let contract to Roberts & Schafer Co., Chicago, Ill. at \$45,000 to construct reinforced concrete, four-track, 500 ton capacity automatic electric coaling and

sanding plant with stoker coal crushing and screening facilities at Beech Creek, W. Va.

Miscellaneous Enterprises.

Fla., Daytona—Transportation—East Coast Coach Co., capital \$500,000, inceptd. with C. Coles, Prest.; L. E. Herb, Secy.-Treas.

Fla., Fort Lauderdale—Fire Equipment—City, voted April 22 on \$4000 bonds for fire equipment; H. C. Davis, City Engr.

Fla., Miami—Construction—Miami & Hialeah Building Corp., capital \$50,000, chartered with H. A. Hopkins, Prest.-Treas.; Paul G. Taylor, Secy.

Fla., Orlando—Incinerator—City, construct municipal incinerator; voted \$250,000. Address The Mayor.

Fla., Tampa—Undertaking—Greenman-Baird Co., capital \$50,000, inceptd. with Joseph L. Baird, Prest.; Thomas R. Greenman, Secy.-Treas.

Fla., West Palm Beach—Laundry—R. A. Smith, plans erecting addition to laundry plant.

Fla., West Palm Beach—Construction—Palm Beach & Western Railway Finance Co., organized with B. D. Cole, Prest.; W. H. DaCamara, Secy.-Treas.

Ga., Atlanta—Abattoir—Atlanta Butchers' Assn. plans erecting \$75,000 addition to abattoir; erect cooler, capacity 1200 head of cattle and enlarge killing floor; C. W. Bernhardt, in charge of construction; Packers' Architectural & Engineering Co., Archts., Chicago, Ill.

Ga., Rome—Potato Curing—W. E. Bowers, Secy., Floyd County Farm Bureau, will erect potato curing plant of ordinary construction. (Lately noted.)

Ky., Louisville—Publishing—Revista Publishing Co., increased capital from \$15,000 to \$30,000.

La., Haynesville—Fire Fighting Equipment—City voted \$25,000 bonds for fire fighting equipment. Address The Mayor.

La., New Orleans—Construction—Globe Construction Co., organized with Edgar J. Kelly, Prest.; Albert Dazet, Secy.-Treas.

Md., Baltimore—Motion Picture Films—National Film Corp., 228 N. Gay St., capital \$50,000, inceptd. by Foster A. Downs, Maurice and Abe Lesner.

Md., Baltimore—Steamship Lines—Wilbur F. Spice & Co., 300 Chamber of Commerce, organized with Robert C. Herd, Prest.; Mrs. Hester R. Spice, V.-P.; Henry R. Butterer, Secy.-Treas. (Lately noted inceptd., capital \$50,000.)

Md., Hagerstown—Advertising—Potomac Sign Service, 46 W. Franklin St., capital \$10,000, inceptd. by Charles Thropp, Fred C. Wright and C. Walter Baker.

Md., Westminster—Building Supplies—Westminster Building & Supply Co., inceptd. by Henry Meekley, Walter L. Shipley and W. Earl Davidson.

Miss., Natchez—Dairy—Brookhaven Creamery Co., Brookhaven, Miss. establish cream station, etc.

Mo., California—Fire Fighting Equipment—City will install additional fire fighting equipment; vote May 2 on \$7500 bonds. (Lately noted.)

Mo., Columbia—Undertaking—Columbia Funeral Home Co., capital \$20,000, inceptd. by C. G. Gillaspay, G. F. Troxwell and J. D. Stone.

Mo., St. Louis—Incinerator—Board of Public Service, Maj. Clinton H. Flisk, Director of Streets and Sewers let contract to Superior Garbage Co., Dallas, Tex. at \$69,755 to construct 80 ton daily capacity incinerator plant at foot of Chouteau Ave.

Mo., St. Louis—Printing—Paschen Printing Co., capital \$25,000, inceptd. by F. L. Paschen, J. A. McDonald and W. D. Stuart; job printing, etc.

N. C., Charlotte—Engraving, etc.—W. A. Ruening Co., 5½ S. Church St., capital \$50,000, inceptd. by W. A. Ruening, B. R. Cates and A. M. Gray.

Okla., Cleveland—Electrical—Cleveland Electric Co., capital \$100,000, inceptd. by J. F. Myers, Cleveland; Alexander A. Boyd and Robert F. Garretson, Michigan City, Ind.

Okla., Muskogee—Greenhouses—Muskogee Carnation Co. erect additional greenhouses, covering about 50,000 sq. ft.

S. C., Charleston—Electrical Supplies—Glasser Mfg. Co., capital \$75,000, inceptd. with M. Glasser, Prest.; Geo. W. Lunney, Secy.

S. C., Chester—Contracting—Carolina Contracting Co., capital \$50,000, inceptd. with J. T. Dabbs, Prest.-Secy.; G. Bennett, V. P.-Treas.

S. C., Columbia—Livestock—Summerton Live Stock Co., capital \$10,000, inceptd. with H. A. Richbourg, Prest.-Treas.; T. C. Felder, Secy.

S. C., St. George—Publishing—County Record Co., inceptd. with W. S. Stokes, Prest.-Treas.; R. Lon Weeks, Secy.

Tenn., Knoxville—Motion Picture—Moore Feature Film Co., 619 W. Glenwood Ave. (lately noted inceptd., capital \$50,000) organized with H. H. Moore, Prest.-Mgr. and Archt.; Helen Richards, Secy.-Treas.; will erect 3-story 85x50-ft. building, part fireproof and part mill work; construction by owners; install motion picture equipment. (See Machinery Wanted—Motion Picture Equipment; Costumes.)

Tenn., Memphis—Engineering, etc.—Knapp Engineering Co., capital \$25,000, inceptd. by H. T. Knapp, A. C. Perkins and John W. Palmer.

Tex., Dallas—Publishing—Dixie Publishing Co., inceptd. by C. E. Linn, W. E. Talbot and E. G. Stube.

Tex., Dallas—Printing, etc.—Rutledge Printing & Stationery Co., capital \$20,000, inceptd. by Ed. M. Rutledge, J. E. Sheridan and W. E. Hubbert.

Tex., LaGrange—Publishing—Svoboda Publishing Co., capital \$25,000, inceptd. by A. Hardusek, Jos. Koss and A. E. von Rosenberg.

Tex., Waco—Publishing—Waco Times-Herald will occupy 2 story building, being remodeled by building 30x40-ft. addition; plans installing modern equipment; William Smith, Contr.

Tex., Woodlake—Amusements—Woodlake Amusement Co., inceptd. by J. P. Griffin, H. I. Gahagan and J. A. Wright.

Va., Lexington—Construction—H. A. Donald & Co., inceptd. with H. A. Donald, Prest.; James C. Allen, Secy.

Va., Martinsville—Printing—Bulletin Printing & Publishing Co. increased capital to \$25,000.

Va., Norfolk—Printing, etc.—Norfolk Post Corp., capital \$150,000, inceptd. with Frank S. Newell, Prest., Norfolk; C. F. Mosher, Secy., Cincinnati, O.

Va., Radford—Laundry—American Steam Laundry, W. H. Painter, Prest.; (lately noted to erect plant) will construct 40x100-ft. steam laundry building, approx. \$8000; construction by owner. (See Mch. Wanted—Steel Sash.)

Va., Roanoke—Construction—Jefferson

Building Co., increased capital from \$50,000 to \$100,000.

W. Va., Moundsville—Moundsville Supply Co., capital \$25,000, inceptd. by T. W. Burlingame, New Martinsville, W. Va.; J. N. Wells and P. M. Arrick, Clarington, O.

W. Va., Weirton—Publishing—Weirton Publishing Co., capital \$15,000, inceptd. by E. A. Ferguson, R. C. Evans and Thos. S. Hoffman.

Miscellaneous Factories.

D. C., Washington—Madden-Millard, Inc., capital \$30,000, chartered by Lester R. Strasburgher, Jos. E. Casey, Avery K. Donovan.

Fla., Leesburg—Fibre—Florida Fibre Containers, capital \$150,000, inceptd. with Edward R. Lacy, Prest., Leesburg; Gilbert D. Leech, V.-P.; Chas. E. Dannel, Secy.

Fla., Miami—Melrose S. Avery, capital \$50,000, inceptd. with Melrose S. Avery, Prest.; H. L. Slickman, Secy.

Fla., Quincy—R. E. Cantey Co., capital \$30,000, inceptd. with R. T. Cantey, Prest.; J. D. Smith, V.-P.; J. M. Marlin, Secy.

Fla., Tampa—Chemical—Black Seal Chemical Co., capital \$10,000, inceptd. with H. C. McMichael, Prest.; J. L. Moon, V.-P.; H. P. Boyce, Secy.

Fla., West Palm Beach—Twine, Rope, etc.—Palm Fibre Co., Box 611, will erect plant to mfr. twine, rope, burlaps, rugs. (See Mch. Wanted—Twine Making Mch., etc.)

Ky., Owensboro—Tobacco—U. S. Tobacco Co., capital \$100,000, inceptd. by John Ross, Liverpool, Eng.; Otto Dowling, H. T. Stratton, both of Springfield, Tenn.

La., Alexandria—Glass—Old Dominion Glass Co. is rebuilding burned plant; D. E. Bayliss, Contr.

La., Houma—Sugar and Syrup—John O. Trahan interested in erecting plant to convert cane juice into sugar and syrup, bagasse from cane will be mfrd. into paper and waste of mill converted into gas and then into electricity to supply current for both sugar process and paper mill.

La., Monroe—Paper and Pulp—Southwestern Paper & Pulp Co. of Norwich, Conn. will establish plant on Monroe-Columbia Rd.

Md., Baltimore—Stropper—American Stropper Corp., capital \$1,250,000, inceptd. by John G. Caldwell, Albert J. Miller, both of Baltimore, John F. Hoos, Glenburnie, Md.

Md., Baltimore—Southern Distributing Co., 700 Equitable Bldg., capital \$100,000, inceptd. by Harry M. Mahool, Louis H. Windholz.

Md., Baltimore—Sporting Goods—Golf Specialty Mfg. Co., Keyser Bldg., capital \$25,000, inceptd. by Sellman Houser, Harold E. Whitaker, J. Loran Bowles.

Md., Crisfield—Tobacco, etc.—H. L. Loreman & Bro., capital \$50,000, inceptd. by Winfield S. Nelson, Jr., Harding P. Tull, Geo. J. Parsons.

Md., Solomons—Shirts—Avondale Mfg. Co., lately noted inceptd. with Jos. C. Lore, Prest. will erect plant; 30x70x10 ft.; ordinary frame construction, iron, iron roof; install sewing machines; Jas. R. Grover, Supv. Archt.; building leased by Webster & Keating.

Mo., Sedalia—Candy—Yankee Candy Co., inceptd. by E. J. Yankee, J. J. Coates, C. S. Smith.

Mo., Springfield—Creamery—Geo. S. Dobble and W. A. Hitch, Archt., both of Chicago, interested in installing creamery in local plant.

Mo., St. Joseph—Biscuit—National Bis-

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cult Co. will install 3 ovens and boiler house; cost \$70,000.

Mo., St. Louis—Binders, etc.—U Clip Bindery Co., capital \$8000, inceptd. by Rogers Carroll, H. J. Grimm and K. Carroll.

N. C., Burlington—Creamery—Alamance Co-operative Creamery Co., lately noted inceptd., organized with Dr. J. P. Spoon, Prest.; C. G. Sellars, V.-P.; E. L. Henderson, Secy.; will erect plant to mfr. butter, ice cream, milk feed poultry, condensed milk, etc.; bids for machinery equipment opened Apr. 24. (See Mch. Wanted—Creamery Equipment.)

N. C., High Point—Mattress—High Point Mattress Co., capital \$25,000, inceptd. by S. A. Holmes and others.

N. C., New Bern—Candy—New Bern Candy Co., capital \$25,000, inceptd. by P. S. and Pearl Sadler, O. W. Lane.

N. C., Salisbury—Creamery—Rowan Creamery Co., W. G. Yeager, County Agt. will erect creamery; 40x60-ft.; brick, ordinary construction; sanitary finish; install butter making equipment, cost \$3000; refrigerating plant, \$2500; daily capacity 1000 lbs. butter; cost of building, \$5000; bids opened May 13; address S. S. Stabler, Salisbury; lately noted. (See Mch. Wanted—Butter Mfr. Equipment.)

Okl., Muskogee—Cigars—Adam Traband & Sons Cigar Mfg. Co., main office Guthrie, Okla. will establish branch plant.

Okl., Muskogee—Brooms—Muskogee Broom and Duster Co., Oscar B. Stewart, Prest. will erect broom factory, cost \$40,000.

Okl., Muskogee—Cigars—El Roy Cigar Co., having plans prepared for \$20,000 factory and warehouse.

S. C., Columbia—Paints—Chas. S. Wilbur Co., inceptd. with Chas. S. Wilbur, Prest.; E. J. Duffy, V.-P.; George F. Von Kolnitz, Secy.

Tenn., Chattanooga—Clothing—J. L. Ryan Mfg. Co., capital \$50,000, inceptd. by Paul Wann, J. L. Ryan, M. B. Whitaker.

Tenn., Memphis—Chemical—Bullion Chemical Co., increased capital from \$50,000 to \$150,000.

Tenn., Nashville—Ice Cream—Union Ice Cream Co., 817 Broad St. is having plans prepared by Man & Holman, Stahlman Bldg., for 3 story ice cream plant.

Tenn., Nashville—Candy—Sterling Candy Co., capital \$10,000, inceptd. by G. C. Talley, Wm. P. Smith, Morris Ellis.

Tenn., Nashville—Medicine—Brewster Medicine Co., capital \$100,000, inceptd. with J. R. Brewster, Prest.; C. A. Maxwell, V.-P.

Tex., Beaumont—Bernard Mfg. Co., capital \$10,000, inceptd. by M. B. Riggs, F. H. Sanders, W. C. Bartlett.

Tex., Beeville—F. V. Evans of Tuleta, will rehabilitate building for creamery and ice cream plant.

Tex., Dallas—Shoes—Specialty Shoe Co., L. L. Chinske, leased building and will improve for shoe plant.

Tex., Dallas—Chemical—Southwest Chemical Co., capital \$10,000, inceptd. by J. Wm. Morrow, M. C. Harris, J. F. Harrington.

Tex., Dallas—Chemical—United Chemical Co., capital \$30,000, inceptd. by Wm. G. Carroll, Geo. T. and E. O. Cobb.

Tex., Houston—Dougherty & Co., capital \$5000, inceptd. by Preston J. Dougherty, T. K. and C. E. Snapp.

Tex., San Antonio—Drugs—Glyco-Phosol Drug Co., capital \$50,000, inceptd. by J. A. Graham, Wm. Tracy Page, T. M. Miller.

Tex., San Antonio—Candy—Jenners Candy Mfg. Co., has plans by L. Harrington & Co.

for 2 additional stories to building; contract let about April 22. (Lately noted.)

Tex., Wolfe City—W. P. Maloney Co., capital \$20,000, inceptd. by W. P., W. H. Maloney, L. M. Runnion.

Va., Culpeper—Pants—Culpeper Pants Co., T. H. Brown, Prest., increased capital from \$40,000 to \$60,000.

Tenn., Knoxville—Drugs—Peoples Drug Co., capital \$10,000, inceptd. by Robt. C. Martin, E. L. Mathews, E. F. Lennon.

Tex., Dallas—Royal Baking Co., capital \$7500, inceptd. by M. M. Winters, B. Harris, Morris Laufer.

Tex., San Angelo—Bottling—Coca Cola Bottling Co., capital \$40,000, inceptd. by Gus Jones, L. W. Walker, Walter Adams.

Va., Lynchburg—Clothing—Hill City Mfg. Co., capital \$50,000, inceptd. with Geo. C. Walker, Prest.; L. L. Lewis, Secy.

Va., Norfolk—Bottles—Eureka Bottle Mfg. Co., capital \$300,000, inceptd. with F. F. Priest, Prest.; M. Glennan, Secy.

Va., Tazewell—Maxwell-McHenry Co. changed name to Maxwell Moore Co. increase capital from \$10,000 to \$15,000.

W. Va., Huntington—Mutual Co., capital \$50,000, inceptd. by G. D. Miller, C. M. Cohen, Hans Watts.

W. Va., Parkersburg—Ice Cream—Imperial Ice Cream Co., increased capital from \$625,000 to \$1,000,000.

W. Va., Weston—Glass—Weston Glass Co., increased capital from \$50,000 to \$75,000.

W. Va., Wheeling—Bottling—Lime Cola Bottling Co. remodeling building for bottling works.

Motor Cars, Garages, Tires, Etc.

Ala., Birmingham—Motors—Garth-Holcomb Motor Co., capital \$100,000, inceptd. with J. H. Holcomb, Jr., Prest.; Leon Jones, Secy.-Treas.

Fla., Miami—Filling Station, etc.—W. C. Dorsey purchased filling station and additional site, erect 2 story building, show rooms, repair shop, etc.

Fla., West Palm Beach—Garage—Palm Beach Creamery Co. plans erecting garage, cement block construction.

Fla., West Palm Beach—Automobiles—Shand-Knight Service Stations, capital \$10,000, inceptd. with George F. Knight, Prest.; Graham E. Shand, Secy.-Treas.

Ga., Athens—Filling Station—E. S. Sporting Goods Co. let contract to William J. Miller to erect filling station on Washington St.

Ga., Columbus—Filling Station—A. J. Little let contract to Buck and Sons to erect drive in filling station on 13th St., brick offices, spider web, cement drive and visible tanks to be used.

N. C., Greenville—Accessories—Brunson Accessories Co., capital \$50,000, inceptd. by W. H. Dail, Jr., E. G. Flanigan and R. R. Brunson.

S. C., Columbia—Automobiles—Penny-Busick Co., capital \$50,000, inceptd. with P. M. Busick, Prest.-Secy.

Tenn., Knoxville—Automobiles—Cherokee Motor Co., Claude S. Reeder, Prest. leased 4 story building, remodel.

Tenn., Nashville—Automobile Accessories—Fall Sales Co., capital \$10,000, inceptd. by J. W. Hall, Tillman Calvert and Overton Thompson.

Tex., Dallas—Batteries—Philadelphia Storage Battery Co. of Tex., capital \$15,000, inceptd. by Chas. C. Norris, Jr., David W. Hardy and Ralph Randolph.

Tex., Orange—Garage—English Auto Sales Co. will occupy 1 story fireproof building; estimated cost \$10,000; Hugh Yantis, Engr., in charge of construction.

W. Va., Bluefield—Garage, etc.—Bluefield Garage Co. let contract to Oscar Mitchell for excavation work for construction of 3 story, fireproof reinforced concrete and brick garage and sales rooms on Bland St.

W. Va., Charleston—Batteries—Charleston Battery Co., capital \$15,000, Glenn M. Colby, G. R. and J. D. Krebs.

W. Va., Huntington—Automobiles—Reo Distributing Co., organized with T. A. Cavendish, Prest.; A. T. Weber, Secy.-Treas.; install equipment for repairing, mch. purchased.

W. Va., Wheeling—Garage—Service Auto & Equipment Co., plans erecting \$15,000 garage; tile construction.

Railways

Tenn., Maryville—Survey begun for proposed railroad of Pittsburgh Development Co. from Hubbard Station on the Knoxville & Augusta Railroad via Melrose Springs to the company's iron deposits in the Chilhowee Mountains. Construction to begin soon.

Va., Norfolk—Norfolk & Western Railway Co. has let contract to H. M. Waugh of Bluefield, W. Va., to build its extension from Lambert's Point to Atlantic City 1½ mi. near Norfolk. Including main line, sidings and spurs there will be about 11,000 feet of track.

Road and Street Construction.

Ala., Alexander City—State Highway Comsn. of Alabama, Montgomery, Ala., will construct 5.307 mi. State road between Alexander City and Jackson's Gap; Section A and D; 16,500 sq. yds. mixing sand-gravel and clay; bids until May 16; W. S. Keller, State Highway Engr. (See Mch. Wanted—Road Construction.)

Ala., Birmingham—Jefferson County Board of Revenue let contract to C. P. Parsons, at \$61,300, to construct 10. mi. Warrior-Robbins Cross roads; and to Independent Paving Co., at \$223,020, to construct Ensley-Mulga roads; Claude Rogers, County Engr.

Ala., Birmingham—Jefferson County Board of Revenue, let contract to J. M. Acton, at \$23,286 to construct 6 mi. Trafford-Bradford road; to B. F. Jones, at \$34,910 to construct Overton loop road; and at \$15,226, to construct 5 mi. Trussville County line road; and to Wallace Bros., at \$62,350, to construct Port of Birmingham road; C. J. Rogers, County Highway Engr.

Ala., Decatur—Morgan County Board of Revenue, let contract to Goodrich Co., at \$440,000 to construct 7.4-mi. extension of Falkville west pike from McKendree Chapel west to Danville and Bashams Gap road; 14.6-mi. Decatur and Danville road; 14.6-mi. extension of Falkville east pike; 3-mi. from Eva north to Oden Ridge schoolhouse; 7.4-mi. Decatur and Somerville pike; 5.6-mi. Florette and Ryans X roads; 7.9-mi. Hartselle and Valhermesa pike; 3.2-mi. Flint and Danville road; etc.; L. P. Troup, Judge of Probate.

Ala., Garden City—State Highway Comsn. of Alabama, Montgomery, Ala., let contract to Converse Bridge and Steel Co., Chattanooga, Tenn., at \$26,656, to build 102-ft. 6-in., and 180-ft. 9-in. Through truss spans with concrete floors; W. S. Keller, State Highway Engr.

Ala., Mobile—Board of Revenue, plans expending about \$44,000 to improve 5 mi. Lott road; clay gravel; also plans widening Terrel's Lane, from Cedar Point road to Bay Front Road.

Ala., Monroeville—State Highway Comsn., of Alabama. Montgomery, Ala., will construct 8.23 mi. State road between Uriah and Monroeville; Monroe County; 27,916 cu. yds. common excavation; bids until May 2; W. S. Keller, State Highway Engr. (See Mch. Wanted—Road Construction.)

Ala., Prichard—Board of Revenue and Road Comms., let contract to R. M. Perry to hard-surface Rives St., from Engine to St. Stephens road, and to continue road along 5th St. to Telegraph road.

Ala., Tuscaloosa—City Comms., D. B. Robertson, Prest., will construct 30,000 sq. yds. of Portland cement concrete street paving; 25,000 lin. ft. 4-in., and 850 lin. ft. 6-in. integral concrete curb; 300 sq. yds. concrete sidewalks; 50 cu. yds. concrete in car tracks; bids until Apr. 25; W. H. Nicol, City Engr. (See Mch. Wanted—Paving.)

Ark., Harrisburg—Poinsett County Comms., Ozark Trail Road Improvement Dist. let contract to Hansen Construction Co., Blytheville, Ark., at about \$260,000, to construct 10 mi. 18-ft. concrete roadway, reinforced by steel rods, embedded in wearing surface, from Marked Tree to north line Crittendon County.

Ark., Pine Bluff—City will pave 18 blocks in Paving Dist. No. 57; 14th Ave. from Laurel to Cedar, Oak St. from 13th to 14th; Beech St. from 11th to 15th, 13th from Laurel to Beech, and 11th from Laurel to Beech; reinforced concrete with gutters and storm sewers; contract awarded soon; Fred Bennett, Engr.

Fla., Avon Park—City, D. A. Sapp, Mayor, will expend about \$65,000 to pave and improve streets and parks; John H. Heed, Engr.

Fla., Eustis—City will construct about 6 mi. street paving, and construct sewers; plans voting on \$110,000 bonds. Address The Mayor.

Fla., Fort Lauderdale—City, will improve streets; votes Apr. 22 on \$36,000 bonds; H. C. Davis, City Engr.

Fla., Fort Myers—Lee County Comms., will construct 16-ft. wide crushed rock or shell New Prospect road from Fort Myers to Charlotte County line; bids until June 7; R. P. Ransom, County Engr.; \$75,000 bonds available.

Fla., Jacksonville—State Highway Comsn., Tallahassee, Fla., will construct 43 mi. road from city limits to Lae City; Duval-Columbia Counties Project; Englis & Winterborn, Contrs., for 33 mi. construction; concrete surface.

Fla., Kissimmee—Osceola County Comms., J. L. Overstreet, Clk., let contract to Prior & Deen, Loughman, Fla., to construct 8 mi. clay roads in Lake Wilson Dist. Precinct No. 10; Joe Johnson, County Engr.

Fla., Ocala—City, H. C. Sistrunk, Clk., will construct sidewalks and curbs on Main and Sanchez Sts.; bids until May 2. (See Mch. Wanted—Paving.)

Fla., Orlando—Orange County, Chas. A. Browne, Ch. Engr., let contract to Welton P. Johnson, at \$29,400, to grade 14 mi. road; B. M. Robinson, Clk., Court.

Fla., Orlando—Orange County Comms., will grade portion Orlando-East Coast road between Rithlo and Brevard County line at St. Johns River; 12.6 mi.; bids until May 18; B. M. Robinson, Clk.; Chas. A. Browne, Ch. Engr. (See Mch. Wanted—Road Construction.)

Fla., Pensacola—Escambia County will construct 42 mi. road from Pensacola to Flomaton, Ala.; 1/3 to be paved; Jas. Macgibbon, Clk. Circuit Court; also build 5 bridges on this highway; federal and state funds available.

Fla., Sanford—Seminole County Comms.,

will resurface roads and build steel bridge at Osteen Ferry; voted \$100,000 bonds.

Fla., St. Augustine—St. Johns County Comms., Obe. F. Gooda, Clk., will receive bids until May 25 on the following:

16 mi. Tocoi Road from St. Augustine to Tocoi;

8.4 mi. Elkton-Tocoi road from Elkton to intersection of Tocoi road;

24 mi. Mill Creek road from Horn Road to Jullington Creek;

4 1/2 mi. road to connect Mill Creek and Picolata roads;

1 1/2 mi. road from Hastings to Putnam County line; direction of Federal Point road;

6 1/4 mi. road south from Hastings to Putnam County line;

3 mi. Spuds road intersecting Dixie Highway east and south of Hastings;

2.5 mi. Hastings Boulevard Extension road from Hastings Boulevard to Flagler County line;

4.7 Horn road from New Augustine to entrance of St. Augustine Golf Links;

10.4 mi. Anastasia Island road extending along island. (See Machinery Wanted—Road Construction.)

Fla., Tavares—Lake County Comms., H. R. Ferran, Chrmn., plans constructing 65 mi. roads in South Lake Road and Bridge Dist.; vote May 9 on \$250,000 bonds; T. C. Smith, County Clk., Geo. E. Heller, County Engr.

Fla., Tavares—Lake County Comms., let contract to E. F. Morgan, to construct and repair asphalt roads; G. E. Heller, County Engr.

Fla., Williston—Town, Wm. Koehler, Clk., will expend about \$36,000 to construct 1 1/2 mi. hard-surface street paving contract let to Mickler & McLeod, Tampa, Fla.; Edw. Drake, Engr., Ocala, Fla. (See Mch. Wanted—Paving Material; Culverts.)

Ga., Athens—Clarke County will construct roads and bridges; vote on \$100,000 bonds. Address County Comms.

Ga., Athens—Clark County Comms., will construct road and build bridges; vote May 17 on \$100,000 bonds.

Ky., Frankfort—City, Mayor Smith, will grade and construct following streets with sheet asphalt or concrete: Main, St. Clair, Bridge and Second.

La., Baton Rouge—Louisiana Highway Comsn. will hard surface and gravel 5 mi. roads and highways in Road Dist., No. 2; cost \$100,000; also supervise construction 10 mi. gravel roads; F. A. Woods, Secy., East Baton Rouge Parish Police Jury.

Maryland—State Roads Comsn., 601 Garrett Bldg., Baltimore, Md., will construct State Highways in following counties:

Queen County, 2.86 mi. State Highway between Sudkersville and Ingleside; Cont. No. Q-14.

Kent County, 1.34 mi. State Highway through Stillpond and Betterton; Cont. No. K-18.

Montgomery County, 2.18 mi. State Highway from end of Cont. No. M-22 to Clarksburg; Cont. No. M-30.

Frederick County, 11 mi. State Highway from end of Cont. No. F-7C-Ext.; toward Lisbon in Howard County; Cont. F-7D.

All concrete; bids until May 2. (See Mch. Wanted—Road Construction.)

Md., Baltimore—Board of Awards will grade, curb and pave streets listed in Contract No. 214-OCNA, 5610 sq. yds. cement concrete; Contract No. 215-NA, 8400 sq. yds. sheet asphalt; Contract No. 216-OC, 5095 sq. yds. granite block; Contract No. 217-OC, 11,280 sq. yds. sheet asphalt, vitrified block and granite block; bids until May 3; R.

Keith Compton, Chrmn. Paving Comsn. (See Mch. Wanted—Paving.)

Md., Baltimore—Board of Awards, Improvement Comsn., R. Keith Compton, Chrmn., will improve streets in Rognel Heights section; Walnut Ave. from Edmondson Ave. north; sheet asphalt; sidewalks intersecting Walnut Ave.; contracts awarded soon.

Miss., Coldwater—Town, let contract to B. W. Crenshaw, to gravel certain streets. Address The Mayor.

Miss., Jackson—City, let contract to Dunn Construction Co., Birmingham, Ala. to construct 60,000 sq. yds. paving on following streets; Lynch, Clifton and Congress Sts., and Bailey Ave.; 1 1/2-in. sheet asphalt top on 5-in. concrete foundation.

Miss., Jackson—City will pave following streets: Gillespie, Griffith, President, Congress Minerva, West Pearl, D. Farrish, Bailey Aves., Lynch and Clifton Sts., Address The Mayor.

Miss., Magnolia—Pike County Comms., let contract to I. W. Ball to repair and maintain roads in county.

Miss., Pascagoula—Jackson County Board Suprvs. and Mississippi State Highway Comsn., Meridian, Miss., will expend about \$387,000 to construct permanent highway across county; \$95,000 for Dist. 2, with Moss Point, principal city; \$112,000 for Dist. 3, including Pascagoula; \$180,000 for Dist. 4, with Ocean Springs, included; Federal aid assured.

Miss., Senatobia—Tate County Comms., let contract to Dock Ross to hard-surface Memphis-Oxford Road, from Olive Branch to Tate County line; plans carrying on construction to Independence.

Mo., Alton—State Highway Dept., Jefferson City, Mo., will construct 4.716 mi. State road from West Plains to Thayer; grade and construct drainage structures; Oregon County, State Aid Project No. 20,159; bids until May 3; M. S. Murray, Div. Engr., Sikeston, Mo. (See Mch. Wanted—Road Construction.)

Mo., Alton—State Highway Dept., Jefferson City, Mo., will construct 5723 mi. State road from Alton, eastward, Oregon County, State Aid Project No. 20,123; grade, construct drainage structures, etc.; bids until May 3; M. S. Murray, Div. Engr., Sikeston, Mo. (See Machinery Wanted—Road Construction.)

Mo., Ava—State Highway Dept., Jefferson City, Mo., will construct 8768 mi. State road from Ava, southward and westward; grade, construct drainage structures, etc.; Douglas County, State Aid Project No. 20,153; bids until Apr. 27; H. P. Moberly, Div. Engr., Woodruff Bldg., Springfield, Mo. Lately noted. (See Machinery Wanted—Road Construction.)

Mo., Bethany—State Highway Dept., Jefferson City, Mo., let contract to Larson Construction Co., Sioux City, Ia., at \$40,309.49, to construct 1.169 mi. State road from New Hampton, eastward and westward, including grading and culverts; Harrison County, Federal Aid Project No. 50; A. D. Lingley, Div. Engr., Ballinger Bldg., St. Louis, Mo. (Lately noted.)

Mo., Boonville—State Highway Dept., Jefferson City, Mo., let contract to Felix Kersting Co., Jefferson City, Mo., at \$10,609.21, to construct 3.314 mi. State road from Boonville eastward and westward; Cooper County, State Aid Project No. 20,97; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalla, Mo. (Lately noted inviting bids.)

Mo., Cameron—City let contract to R. M. Perkins, Kansas City, Mo. to pave Mead St.; and to Cook-O'Brien Construction Co., Kansas City, Mo., to pave S. Walnut St. Address The Mayor.

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Mo., Doniphan—State Highway Dept., Jefferson City, Mo., will construct 5.596 mi. State road from Doniphan to Poplar Bluff; grade, construct drainage structures, etc.; 12-ft. wide gravel pavement; Ripley County, Federal Aid Project No. 91, Section B; bids until May 1; M. S. Murray, Div. Engr. Sikeston, Mo. Lately noted. (See Mch. Wanted—Road Construction.)

Mo., Eminence—State Highway Dept., Jefferson City, Mo., will construct 4.261 mi. State road through Winona grade, construct drainage structures, etc.; Shannon County, State Aid Project No. 20,160; bids until May 5; M. S. Murray, Div. Engr., Sikeston, Mo. (See Machinery Wanted—Road Construction.)

Mo., Fulton—State Highway Dept., Jefferson City, Mo., let contract to Riley & Bailey Construction Co., St. Louis, Mo., at \$4571.56, to construct .598 mi. State road from Jefferson City, to Fulton; Callaway County, State Aid Project No. 20,143; H. D. Griffith, Div. Engr., De Soto, Mo.

Mo., Fulton—State Highway Dept., Jefferson City, Mo., will construct 15.736 mi. hard surface road in Williamsburg Special Road Dist., gravel and macadam; cost about \$70,000; bids until Apr. 27; Harry Griffith, Div. Engr., De Soto, Mo. Lately noted. (See Mch. Wanted—Road Construction.)

Mo., Gainesville—State Highway Dept., Jefferson City, Mo., let contract to Baker Construction Co., Mansfield, Mo., to construct 21,214 mi. State road from Gainesville eastward; H. P. Mobberly, Div. Engr., Woodruff Bldg., Springfield, Mo. (Lately noted.)

Mo., Grant City—State Highway Dept., Jefferson City, Mo., will construct 1.181 mi. State road from Grant City southward; grade and construct drainage structures; Worth County, State Aid Project No. 20,147; bids until May 11; A. C. Lingley, Div. Engr., Ballinger Bldg., St. Joseph, Mo. (See Mch. Wanted—Road Construction.)

Mo., Hermitage—State Highway Dept., Jefferson City, Mo., let contract to M. E. Gillioz, Monett, Mo., at \$37,952.85, to construct 7035 mi. State road from Wheatland, eastward and westward; Federal Aid Project No. 98; also \$31,689.02, to construct 7.4 mi. State road from Preston to Collins; Federal Aid Project No. 45; both Hickory County; S. M. Rudder, Div. Engr., Sedalia, Mo. (Lately noted inviting bids.)

Mo., Independence—Jackson County Court will pave Martin City road from Red River bridge road to Cass County line; Leo. E. Koehler, County Engr.

Mo., Kansas City—City, Board of Public Works let contract for following streets: Montgall Ave., from 71st to 72nd Sts., to E. F. Clarkson, grade; Spruce Ave., Linwood Boulevard to 33rd St., to Halpin-Boyle Construction Co., concrete pavement; Brooklyn Ave., to J. E. Welsh, concrete pavement; Independence Ave., Walnut St. to Grand Ave., to Parker-Washington Co.; resurfacing sheet asphalt pavement; Broadway, to Halpin-Boyle Construction Co., brick block pavement; 5th St., to J. O. Patterson, brick block pavement; Bales Ave., to J. E. Welsh; macadam pavement; Westover road to M. D. Bagwell, repairing; Will award contract Apr. 25 for following: 33rd St., concrete gutter; Park Ave., concrete pavement; Wyandotte St., sheet asphalt; Brooklyn Ave., concrete curbing. Address The Mayor.

Mo., Kansas City—City, Park Board, will construct Linwood Boulevard between Robert Gillham Road and Main St. Address Ben M. Powers, Attorney.

Mo., Lancaster—State Highway Dept., Jefferson City, Mo., plans constructing 4.98 mi. State road from Lancaster eastward and westward; Schuyler County, State Aid Proj-

ect No. 20,144; grade and construct drainage structures, etc.; bids until May 4; M. J. Hanick, Div. Engr., Howe Bldg., Macon, Mo.

Mo., Laurel—Jones County Board of Supvrs. will expend about \$22,000 to improve Laurel-Overt-Richton road south from Laurel and on Jackson highway south from Tallahala Creek bridge.

Mo., Linneus—State Highway Dept., Jefferson City, Mo., let contract to C. P. O'Reilly & Co., St. Louis, Mo., at \$13,507.36, to construct 2.914 mi. State road from Browning to Brookfield; grade and construct drainage structures; Linn County, State Aid Project No. 20,130; M. J. Hanick, Div. Engr., Howe Bldg., Macon, Mo. (Lately noted.)

Mo., Marshall—State Highway Dept., Jefferson City, Mo., will construct about 3 mi. Santa Fe road in Saline County; bids until May 4; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo. (See Mch. Wanted—Road Construction.)

Mo., Marshall—State Highway Dept., Jefferson City, Mo., will construct 2.595 mi. State road from Marshall eastward and westward, National Old Trails Road; grade and construct drainage structures; Saline County, State Aid Project No. 20,155; bids until May 4; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo. (See Mch. Wanted—Road Construction.)

Mo., Marshall—State Highway Dept., Jefferson City, Mo., plans constructing 2.694 mi. State road from Miami to Marshall and from Sedalia to Marshall; grade and construct drainage structures, etc.; Saline County, State Aid Project No. 20,148; bids until May 4; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo.

Mo., Memphis—State Highway Dept., Jefferson City, Mo., plans constructing 4.939 mi. State road from Memphis northward and southward; grade and construct drainage structures; Scotland County, State Aid Project No. 10,108; M. J. Hanick, Div. Engr., Howe Bldg., Macon, Mo.

Mo., Milan—State Highway Dept., Jefferson City, Mo., let contract to C. P. O'Reilly & Co., St. Louis, Mo., at \$17,596.40, to construct 7.115 mi. State road from Pollock to Milan; Sullivan County, State Aid Project No. 20,139; M. J. Hanick, Div. Engr., Howe Bldg., Macon, Mo.

Mo., Monticello—State Highway Dept., Jefferson City, Mo., will construct 7.94 mi. State road northward and southward through LaGrange Special Road Dist.; grade, construct drainage structures; 16-ft. wide gravel pavement or gravel surface course on stone base course, etc.; Lewis County, Federal Aid Project No. 39; construct 8.37 mi. State road from Canton southward and westward; grade, construct drainage structures; 16-ft. wide gravel pavement or gravel surface on stone base course, etc.; Lewis County, Federal Aid Project No. 38; M. J. Hanick, Div. Engr., Howe Bldg., Macon, Ga.

Mo., Pineville—State Highway Dept., Jefferson City, Mo., let contract to Winstead-Gunter & Co., Siloam Springs, Ark., at \$21,168.26, to construct 4.223 mi. State road from Pineville southeastward and Noel southwestward; McDonald County, State Aid Project No. 20,152; H. P. Mobberly, Div. Engr., Woodruff Building, Springfield, Mo. (Lately noted inviting bids.)

Mo., St. Charles—City let contract to John F. McMahon to rebuild portion of Main St.; concrete. Address The Mayor.

Mo., Trenton—City, C. R. Winks, will pave following streets: Custer St., reinforced concrete; Halliburton St., bituminous macadam; Grant St., reinforced concrete; 13th St., bituminous macadam; W. 8th St., brick;

curbs and gutters; bids opened Apr. 19. (See Mch. Wanted—Paving.)

Mo., Tusculumbia, State Highway Dept., Jefferson City, Mo., will construct 2389 mi. State road from Tusculumbia to Pulaski County line; grade, construct drainage structures, etc.; Miller County, State Aid Project No. 20,126; bids until Apr. 28; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo. (See Machinery Wanted—Road Construction.)

Mo., Versailles—State Highway Dept., Jefferson City, Mo., will construct 9.452 mi. State road from Versailles to Linn Creek; grade and construct drainage structures; Morgan County, State Aid Project No. 20,156; bids until Apr. 29; S. M. Rudder, Div. Engr., Ilgenfritz Building, Sedalia, Mo. (See Mch. Wanted—Road Construction.)

N. C., Bessemer City—Town, R. C. Kennedy, Mayor, will pave several streets; 27,700 sq. yds. plain concrete, reinforced concrete or sheet asphalt, etc.; bids until Apr. 28; Mees & Mees, Const. Engrs., Charlotte, N. C. (See Mch. Wanted—Paving.)

N. C., Charlotte—Mecklenburg County Highway Comsn., let contract to Noll Construction Co., 502 S. Cedar St., to construct 2.5 mi. asphalt Providence road.

N. C., Danbury—State Highway Comsn., Raleigh, N. C., will construct hard surface road from Elkin to Brooks' Cross Roads.

N. C., Davidson—Town, C. H. Hamilton, Mayor, will pave several streets; 2500 cu. yds. grading; 7000 sq. yds. plain cement concrete, reinforced concrete, sheet asphalt, bitulithic or asphaltic concrete pavement on 5-in. Portland cement concrete base; 10,500 lin. ft. combination concrete curbs and gutters, storm drains, etc.; bids until Apr. 28; W. H. Thompson, Clk., Davidson; Mees & Mees, Const. Engrs., Charlotte, N. C. (See Mch. Wanted—Paving.)

N. C., Edenton—State Highway Comsn., Raleigh, N. C., will construct 48 mi. hard-surface road from Edenton to Currituck courthouse; will invite bids soon.

N. C., Elkin—Town Commrs., will grade and construct pavements on East and West Main, Church and Market Sts., and Gwyn Ave.; concrete, asphaltic concrete, sheet asphalt, and warrentite-bitulithic; 40,000 sq. yds.; build bridge; bids until May 8; O. W. Chatham, Jr., Clk., J. W. Ring, Mayor; Pegram and Reynolds, Const. Engrs., 501 Wachovia Bank Bldg., Winston-Salem, N. C. (See Mch. Wanted—Paving.)

N. C., Fayetteville—City let contract to Atlantic Bitulithic Co. to re-surface 30,000 sq. yds. bitulithic paving on Hay, Person, Green and Gillespie Sts.; to Barrett & Co., Philadelphia, Pa., to re-surface Ramsey St., to tarvia pave section of Gillespie St., and to surface with tarvia, Russell St.; approximately 30,000 sq. yds.

N. C., Huntersville—Town, K. W. Fite, Clk., will construct sidewalks, curbs and gutters; 1000 cu. yds. grading; 2000 sq. yds. plain cement concrete sidewalks; bids until Apr. 28; Mees & Mees, Const. Engrs., Charlotte, N. C. Lately noted. (See Mch. Wanted—Paving.)

N. C., Lumberton—Town let contract to Southern Paving Construction Co., Knoxville, Tenn., to construct 30,000 sq. yds. paving; Carolina Engineering Co., Wilmington, N. C., Engr.

N. C., Southern Pines—Town, R. L. Chandler, Clk., let contract to Ely Construction Co., Augusta, Ga., to pave east and west Broad St., and Pennsylvania Ave.; concrete; Gilbert C. White, Engr., Durham, N. C.

N. C., Warrenton—State Highway Comsn., Raleigh, N. C., let contract to Porter & Polk to construct 6.7 mi. hard surface road between Norlina and Vance County line.

N. C., Waynesville—Haywood County Comms., H. Arthur Osborne, Chmn., will construct 4.27 mi., hard-surface road from Waynesville to Delwood; 45,000 sq. yds. fine dressing; 45,000 sq. yds. plain concrete; 40,000 sq. yds. Topeka Top.

Construct 4.53 mi. hard-surface road between Canton and Woodrow; 48,000 sq. yds. plain and 48,000 sq. yds. reinforced concrete; 43,000 sq. yds. Topeka Top; bids until Apr. 28. (See Mch. Wanted—Road Construction.)

N. C., Winston-Salem — Forsyth County plans constructing 5½ mi. road from Bethania to Rural Hall; sand-clay; D. W. Harmon, County Engr.

N. C., Winston-Salem—Congress Heights Development Co., W. W. Walsh, Prest., Peoples National Bank Bldg., will pave 5 streets in 18½-acre site to be developed; J. E. Ellebee, Engr.

S. C., Bamberg—State Highway Dept., Columbia, S. C., will construct 12.453 mi. sand-clay surface road from Point near Edisto River, about 2 mi. from Branchville to Bamberg City limits; Bamberg County, Federal Aid Project No. 166; cost \$40,000; bids until May 8. (See Mch. Wanted—Road Construction.)

S. C., Barnwell—State Highway Dept., Columbia, S. C., will construct 9.653 mi. road from Barnwell to Elko; Barnwell County, Federal Aid Project No. 151; sand-clay surfacing; cost \$25,000; bids until May 12; Chas. H. Moorefield, State Highway Engr. (See Mch. Wanted—Road Construction.)

S. C., Barnwell—State Highway Dept., Columbia, S. C., will construct 5.303 mi. road from Ekko to Barnwell-Aiken County line; Barnwell County, Federal Aid Project No. 169; sand-clay surfacing; cost \$12,000; bids until May 12; Chas. H. Moorefield, State Highway Engr. (See Mch. Wanted—Road Construction.)

S. C., Belton—City let contract to Poe Construction Co., Greenville, to construct 2000 to 3600 sq. yds. standard concrete sidewalks on O'Neal St. Address The Mayor.

S. C., Bennettsville—State Highway Dept., Columbia, S. C., will construct 6.691 mi. clay-gravel surface road from McLaughlin's Mill to Great Pee Dee River, near Cheraw; cost \$25,000; Marlboro County, Federal Aid Project No. 155; bids until May 4. (See Mch. Wanted—Road Construction.)

S. C., Charleston—City will construct 15 mi. paving, with asphalt surfacing as follows: Chalmers, Charlotte, King, Beaufain, Warren, John, Lamboll, Hunter Sts., etc.; Court House Square, Rutledge Ave., etc. Address The Mayor.

S. C., Florence—Florence County Comms., will construct 2.13 mi. Kingstree-Lake City road in Florence County, from Florence-Williamsburg County line to city limits of Lake City; 16,205 cu. yds. excavation; bids opened; S. R. Phillips, County Supvr.

S. C., Greenville—City, H. C. Harvley, Mayor, let contract to Slattery & Henry, at \$28,441, to construct 21,500 sq. yds. asphalt paving; to Henry Construction Co., at \$71,284, to construct 25,000 sq. yds. concrete paving; to Greenville Paving Co., at \$27,173 for paving sidewalks; W. D. Neeves, City Engr. (Lately noted.)

S. C., McCormick—State Highway Dept., Columbia, S. C., will construct 13.509 mi.

road from McCormick to McCormick-Abbeville County line; McCormick County, Federal Aid Project No. 14; top-soil surfacing; cost \$30,000; bids until May 18; Chas. H. Moorefield, State Highway Engr. Lately noted. (See Mch. Wanted—Road Construction.)

S. C., Moncks Corner—State Highway Dept., Columbia, S. C., will construct 6.364 mi. road from Biggon Churchyard to Bonneau; Berkeley County, Federal Aid Project No. 161; sand-clay surfacing; Chas. H. Moorefield, State Highway Engr.; cost \$20,000; bids until May 11. (See Mch. Wanted—Road Construction.)

S. C., Newberry—State Highway Dept., Columbia, S. C., will construct 2.515 mi. road from Chapells to point near Saluda River; top-soil surfacing; Newberry County; Federal Aid Project No. 148; cost \$17,500; bids until May 9. Lately noted. (See Mch. Wanted—Road Construction.)

S. C., Newberry—State Highway Dept., Columbia, S. C., will construct top soil roads Newberry County, as follows:

8.5 mi. Pomaria road from Station 00 to Richland County line;

5 mi. Bush River Church road from Station 00 to Station 264;

7.5 mi. Calk Ferry road from Station 00 to Station 397;

5 mi. Ninety Six road from Station 00 to Station 264;

5 mi. Belfast road from Station 00 to Station 264;

6.6 mi. Kempson road from Station 105 to Station 456;

total 107,000 cu. yds. top soil; 5000 cu. yds. rock; bids opened Apr. 25; Sanders and Sweeny, Engrs., Anderson, S. C. and Newberry, S. C. (See Machinery Wanted—Road Construction.)

S. C., Orangeburg—State Highway Dept., Columbia, S. C., will construct 14.655 mi. sand-clay surface road from about 2 mi. west city to city limits of Neeses; Orangeburg County, Federal Aid Project No. 113; cost \$42,500; bids until May 9. (See Mch. Wanted—Road Construction.)

Tenn., Brownsville—State Highway Comsn., Nashville, Tenn., let contract to Hughey Bros., Memphis, Tenn., at \$320,179.74, to grade and surface 9.98 mi. State Highway No. 1, between Madison County line and Brownsville; Haywood County, Federal Aid Project No. 70; hand placed coarse stone base with rock asphalt surface; D. Q. McComb, Ch. Engr. (Lately noted inviting bids.)

Tenn., Huntington—State Highway Comsn., Nashville, Tenn., let contract to Hughey & Hughey, Memphis, Tenn., to hard surface road on Memphis-Bristol road from Huntington to Benton County line; W. L. Moore, Res. Engr.

Tenn., Knoxville—City Comms., let contract at \$43,000 to pave following streets; Locust, Lithgo, 11th and Euclid Aves. (Lately noted.)

Tenn., Lawrenceburg—State Highway Comsn., Nashville, Tenn., let contract to Smith, Pitts & Son, Mt. Pleasant, Tenn., at \$103,854.17, to grade and surface 15.65 mi. State Highway No. 51, between Lawrenceburg and Wayne County line; Lawrence County, Federal Aid Project No. 62; D. Q. McComb, Ch. Engr.; chert surface. (Lately noted inviting bids.)

Tex., Austin—Tavis County Comms. plan constructing roads in Precinct No. 1 and 2; may vote on \$350,000 bonds.

Tex., Ballinger—City, C. S. Green, Mayor, will pave streets; voted on \$50,000.

Tex., Brownsville—Cameron County, will pave section Highway No. 12, in Brownsville; clear, grub and grade; 3060 sq. yds. con-

crete; bids opened Apr. 26; Oscar C. Dancy, County Judge; W. A. Washington, County Engr. (See Mch. Wanted—Paving.)

Tex., Bastrop—Bastrop County will improve several highways and build bridge; bids opened Apr. 24; J. B. Price, County Judge; R. E. Schiller, Res. Engr. (See Machinery Wanted—Road Construction.)

Tex., Clarksville—City let contract to pave 46 blocks. Address The Mayor.

Tex., Corsicana—City, J. A. Harper, Secy., will repair W. 2nd. Ave.; rock asphalt, asphaltic concrete, bitulithic or brick; bids opened.

Tex., Dallas — Dallas County Comms., Court, Arch O. Allen, County Judge, Dallas, Tex., will construct 19 mi. asphalt macadam road on Seagoville road from Dallas, to Kaufman County line; cost \$370,000; Nagle-Witt-Rollins Engineering Co., Dist. Engr.

Tex., Edinburg—Hidalgo County plans constructing 2 concrete paved highways across county; voted \$1,250,000 bonds; Geo. P. Brown, County Judge, Edinburg; P. S. Devine, County Engr., Pharr, Tex.

Tex., Fort Worth—Tarrant County will construct 1.93 mi. road from Niles City to Haslet road; grade, gravel and construct concrete drainage structures; bids opened Apr. 20; Hugh L. Small, County Judge, R. V. Glenn, County Engr. (See Mch. Wanted Road Construction.)

Tex., Fredericksburg — State Highway Dept., Austin, approved plans to gravel surface 16.94 mi. State Highway No. 20-A; Gillespie County, Federal Aid Project No. 127; cost \$34,000; A. H. Kneese, County Judge; A. F. Moursand, County Engr.; invite bids soon.

Tex., Glen Rose—Somervell County Court, R. L. Bryan, County Judge, will construct 3.91 mi. State Highway Nos. 25 and 10-A from Glen Rose to Brazos River; \$476.6 cu. yds. gravel surfacing; 65,841 lbs. reinforced steel; bids until May 1; Henry J. Cox, County Engr. (See Machinery Wanted—Road Construction.)

Tex., Greenville—Hunt County let contract to F. P. McElwath, Corsicana, at \$48,859.35 to surface 12.16 mi. State Highway No. 42, from Shepherd to Rains County line; 24,429.6 cu. yds. crushed stone, base; 74,922 gals. asphalt topping; County furnish crushed stone and cover material at \$107,215.93; O. P. McWhirter, County Judge, A. D. Duck, County Engr.

Tex., Hillsboro — Hill County Comms., Court, Marion Clyette, Auditor, will construct 87,218 sq. yds. cold rolled limestone rock asphalt pavement and 104,662 lin. ft. concrete curbing on Colorado-to-Gulf Highway, Rad Dist. No. 2; bids until Apr. 29; A. A. Walker, Res. Engr., Itasca, Tex.; W. L. Wray, County Judge. (See Mch. Wanted—Paving.)

Tex., Hillsboro—Hill County, Marion Clyette, County Auditor, will construct bituminous surfacing and concrete curbing on Colorado-to-Gulf Highway in Road Dist. No. 1; and bituminous surfacing on King of Trails, north and south from McLennan County line to north line of Road Dist. No. 1; 59,000 sq. yds. cold rolled limestone rock asphalt pavement; 71,000 lin. ft. concrete curbing on Colorado-to-Gulf Highway; and 109,980 sq. yds. inverted penetration asphalt pavement on King of Trails south; bids until Apr. 29; W. L. Wray, County Judge; T. H. Webb, Engr. (See Mch. Wanted—Road Construction.)

Tex., Houston—Harris Comms., Court, H. L. Washburn, County Auditor, let contract to Haden & Austin, at \$30,000 to construct surface treatment on Yale St. road, Washington County road, Humble and 30-mi. Crosby

and La Porte roads; bituminous top, inverted penetration; Howe & Wise, County Engrs., National Bank Bldg.

Tex., Johnson City—Blanco County will construct 7.35 mi. State Highway No. 46 in Blanco County, from Comal County line; grade and construct drainage structures; 57,327.6 cu. yds. roadway excavation; etc.; bids until Apr. 28; Wm. Martiny, County Judge, Johnson City; W. C. Yeager, County Engr., Blanco, Tex. (See Mch. Wanted—Road Construction.)

Tex., Johnson City—Chief Engr., Bureau Public Road, Washington, D. C., approves plans to grade and bridge 14.1 mi. State Highway No. 46; Blanco County, Federal Aid Project No. 244; cost \$79,700; Wm. Martin, County Judge, Johnson City; W. C. Keager, County Engr., Blanco, Tex.

Tex., Johnson City—Ch. Engr., U. S. Bureau Public Road, Washington, D. C., approved plans to grade and construct drainage structures on 6.7 mi. State Highway No. 20-A, section Austin-Fredericksburg Road, Blanco County; Wm. Martin, County Judge; W. C. Jeager, County Engr.

Tex., Kaufman—Kaufman County, J. E. Yates, County Auditor, will surface 25.4 mi. State Highway No. 40, through Precincts Nos. 1 and 7; inverted penetration asphalt topping; 251,146 gals. asphalt; bids until May 3; W. P. Williams, County Judge; Bartlett & Ranney, Inc., County Engrs. (See Mch. Wanted—Road Construction.)

Tex., Laredo—Webb County plans constructing highway between Laredo and Miranda City; vote May 8 on \$150,000 bonds; A. Winslow, County Judge; T. R. Spence, County Engr.

Tex., Linden—Cass County Court, Henry D. Nelson, County Judge, will construct 1.2 mi. State Highway No. 1-B north of Atlanta to Queen City Dist. line; 2407.7 cu. yds. gravel surfacing; 10,617 lbs. reinforced steel; bids until Apr. 28; Hess & Skinner, County Engrs., Southwestern Life Bldg., Dallas, Tex. (See Machinery Wanted—Road Construction.)

Tex., Lufkin—City, G. A. Kelley, Mayor, will improve following streets: Bremond and Culverhouse Sts., and Frank Ave.; macadam, bitulithic pavement, etc.; bids until May 9. (See Mch. Wanted—Paving.)

Tex., Mason—Mason County plans constructing 14.2 mi. State Highway No. 9 from Mason to McCulloch County line; cost \$59,500; Mason County, Federal Aid Project No. 293; gravel surface, 16-ft. wide; J. T. Banks, County Judge, Mason; Joe Gresham, County Engr.

Tex., Memphis—City, will pave streets; vote May 9 on \$65,000 bonds. Address The Mayor.

Tex., Palo Pinto—Palo Pinto County plans constructing 21. mi. 18-ft. asphaltic macadam road on State Highway No. 1 from Strawn to Metcalf Gap and Mineral Wells to Parker County line; cost \$600,000; Federal Aid Project No. 294; E. L. Pitts, County Judge; G. W. Courter, County Engr.

Tex., Paris—Lamar County plans constructing additional 6 mi. 16-ft. concrete road on State Highway No. 5; Lamar County, Federal Aid Project No. 295; cost \$154,880; W. L. Hutchinson, County Judge; W. M. Fooshee, County Engr.

Tex., Paris—Lamar County, plans constructing 40 mi. additional concrete paving on State Highway No. 19; 16-ft. wide; cost \$108,500; W. L. Hutchinson, County Judge; W. M. Fooshee, County Engr.

Tex., San Angelo—City, R. H. Henderson, Mgr., let contract to O'Connor, Smith & Co., Dallas, Tex., at \$263,000 to pave 4 mi. street; also at \$40,800 to pave 4 suburban

blocks; J. E. Baggers, City Engr. (Lately noted.)

Tex., San Antonio—Bexar County will improve Quintana Road from Von Ormy to South San Antonio, in Precinct No. 1; gravel and grub; bids opened Apr. 22; W. D. Kendall, County Auditor; C. E. Hoff, County Engr. (See Mch. Wanted—Road Construction.)

Tex., San Antonio—Bexar County will construct 2 reinforced concrete drainage structures on Somerset road, Precinct No. 1; bids opened Apr. 22; W. S. Kendall, County Auditor; C. E. Hoff, County Engr. (See Mch. Wanted—Road Construction.)

Tex., Sherman—Grayson County plans constructing 5.5 mi. 16-ft. gravel road on portion State Highways No. 5 and 6; cost \$51,000; Dayton B. Steed, County Judge, Sherman; Julian C. Field, County Engr., Denison, Tex.

Tex., Sierra Blanco—Chief Engr., Bureau Public Roads, Washington, D. C., approved plans to construct 5.1 mi. section State Highway No. 1, Hudspeth County; gravel surface; cost \$43,422.32; P. A. Hazzard, County Judge, Herbert Schroeter, County Engr.

Tex., Waco—McLennan County plans constructing 11.75 mi. State Highway No. 2-B; gravel surface; bituminous topping; cost \$200,000; J. P. Lester, County Judge; Mantann Hannah, County Engr.

Tex., Wichita Falls—City, W. D. Cline, Mayor, let contract to West Texas Construction Co., at \$66,986.72, to pave Burnett St.; 17,400 sq. yds. 2-in. Warrenite paving on 5-in. concrete base; F. M. Rugley, City Engr.

Tex., Wills Point—City will pave and gravel streets, voted \$30,000 bonds. Address The Mayor.

Virginia—Virginia State Highway Comsn., Richmond, Va., will construct 4.68 mi. road between Purchase and Lee County line; Scott County Project No. 73; route No. 10.

Louisiana County, 8.2 mi. 16-ft. bituminous macadam road from Louisa to Pendleton; Project No. 109, route No. 9.

Halifax County, 9.9 mi. soil road from Vernon Hill to Houston; Project No. 148, route 12; bids until Apr. 25. (See Mch. Wanted—Road Construction.)

Va., Amherst—Board of Supvrs., Amherst and Nelson Counties, will improve road between Clifford and Colleen on Lynchburg-Afton road.

Va., Charlottesville—City plans expending \$15,000 to pave Monticello road. Address The Mayor.

Va., Charlottesville—Albemarle County let contract to Maloney Paving Co., 3817 Alton Place, N. W., Washington, D. C., at \$125,000 to construct concrete paving; 15 ft. wide and 5-7-5-in. deep; R. E. Lee, County Engr.

Va., Petersburg—City plans repairing concrete road and grade and pave Broadway from 6th to 9th, and 5th Ave. from Broadway to City Point. Address The Mayor.

Va., Radford—City, Paul J. B. Murphy, Mgr., will construct 50,000 sq. yds. sheet asphalt, asphaltic concrete, cement concrete, bitulithic and vitrified brick pavement; bids until May 9. (See Mch. Wanted—Paving.)

Va., Richmond—City, Dept. Public Works, Allen J. Saville, Director, will let contract for paving certain streets with following materials: sheet asphalt, asphaltic concrete, bitulithic, willite process, vitrified brick, durax block and granite spall; cost \$400,000; bids until May 8. (See Mch. Wanted—Paving.)

Va., Staunton—Board Supvrs., Augusta County, W. W. Shields, Supt. Roads, Box 593, will construct 3½ mi. 10-ft. wide water

bound macadam road in South River Dist., between Fisherville and Middle River Dist. line on Long Meadow road; cost \$22,888.77; all bids rejected; construction by own forces.

W. Va., Bluefield—Union Land Assn., let contract to Rosenheim and Pemberton, to pave Union St. extension.

W. Va., Charleston—City, Mat Miser, Commr. Streets and Sewers, let contract to George Henkle to pave Daulton Ave., from 16th to Minton Sts.; Minton St. from Daulton Ave. to alley south of Pottery Eleventh and Pottery Eleventh from Minton to 20th.

W. Va., Charleston—City, let contract to Board—Haley Co., to grade 3rd Ave. from Florida St. to Patrick St.; to G. T. Fliske & Co., to pave Bream St., and to Andrew Asphalt Paving Co., to pave Randolph St., between Pennsylvania and Delaware Sts.; Ernest Bruce, City Engr.

W. Va., Fairmont—Marion County, Union Dist., will improve roads; voted \$391,000 bonds. Address County Commrs. (Lately noted.)

W. Va., Huntington—City, Mat Miser, Commr. Streets and Sewers, will grade, curb and pave following streets: 3rd, 13th, 22nd Sts., and 11th, Monroe and 12th Aves., and South Blvd.; bids until Apr. 28; A. B. Maupin, City Engr. (See Mch. Wanted—Paving.)

W. Va., Huntington—City, Mat Miser, Commr. Streets and Sewers, let contract to following: To Lucien Blas, at \$31,614.40, to pave Latulle St.; to Jack Ullom, at \$9076, to pave 22nd St., between 3rd and 5th Aves.; at \$4414.80 to pave 2nd St., and at \$13,610 to pave Miller, Edward and Grove Sts.; to Harrison & Dean, at \$22,439.40, to pave Buffington St.; A. B. Maupin, City Engr. (Lately noted inviting bids.)

W. Va., Huntington—City, Mat Miser, Commr. Streets and Sewers, plans street improvements; extend Smith St. to Roby's road; Roby's road from Smith St. to Guyan River road; Guyan River road from 1900 Bridge to point half way between 1900 Bridge and Chesapeake & Ohio River Bridge.

W. Va., Kingwood—State Road Dept., Charleston, W. Va., will construct 8 mi. hard surface road between Kingwood and Terra Alta; Preston County; cost \$250,000; bids until June 10.

Sewer Construction.

Ala., Andalusia—City will extend sewers. Address The Mayor.

Ala., Tuscaloosa—City will construct sewer system; 247 lin. ft. of 12 in., 1130 lin. ft. of 15 in., 1120 lin. ft. of 18 in.; 6 manholes, 14 inlets; cost \$3500; bids opened May 2; W. H. Nicol, City Engr. (See Machinery Wanted—Sewer Construction.)

Fla., Eustis—City votes on \$110,000 bonds for paving and sewerage extension. Address The Mayor.

Fla., Fort Lauderdale—City, H. C. Davis, City Engr., will complete two storm sewer districts and construct outfall and main sewer of another district; 10-in. to 36-in. vitrified pipe and segment blocks; estimates not yet completed. (Lately noted.)

Fla., Key West—City will install sewer system; revised plans by Uhlen Construction Co.; cost about \$620,000.

Fla., St. Petersburg—City votes June 6 (change of date) on \$15,000 bonds for extension of sewage disposal plant. Address The Mayor.

Ga., Atlanta—City, A. N. Landers, Pur. Agt., opens bids May 1 to construct Highland Ave. and Los Angeles Ave. sanitary trunk sewer to Ansley Park Pumping Station; late-

ly noted. (See Mch. Wanted—Sewer Construction.)

Ga., Tifton—City, W. T. Hargrett, Mayor, votes May 15 on bonds for new sewer system and extension soil piping; cost \$25,000. (Lately noted.)

Ga., Valdosta—City will extend sewer system. Address The Mayor.

La., Haynesville—City voted \$85,000 bonds for disposal plant and sewer construction. Address The Mayor.

La., Jewella, P. O. Shreveport—City and United States Window Glass Co. will extend sewer system from Shreveport to Jewella.

La., Shreveport—City, J. C. Flanagan, Secy, will construct storm sewer along Travis St.; bids opened Apr. 25. (See Mch. Wanted—Sewer Construction.)

La., Winnsboro—City, H. G. Vaught, Mayor, votes in May (change of date) on \$80,000 bonds for sewer and water works; N. A. Kramer, Magnolia, Miss., Engr. (Lately noted.)

Md., Baltimore—City, Dept. of Public Works open bids May 4 to extend Back River sewage treatment plant; 4-24x36 ft.; M. J. Ruark, Div. Engr. of Sewers. (Lately noted.)

Mo., Hollister—City, R. G. Campbell, Engr., having preliminary plans for sewer and water works system.

N. C., Kernersville—City, A. N. Linville, Mayor, votes May 23 on \$47,000 bonds for sewer system. (Lately noted.)

N. C., Lumberton—Town, J. P. Russell, Clk., let contract to Tucker & Laxton, Charlotte, N. C. for sewer and water extensions; cost about \$80,000; Carolina Engineering Co., Wilmington, N. C., Engrs.

N. C., Southern Pines—Town, R. L. Chandler, Clk., let contract to Virginia Machinery & Well Co., Richmond, Va., for sewer and water works; for pipe to Pomona Co., Greensboro, N. C.

Okla., Bristow—City let contract to V. V. Long & Co., Oklahoma City, for engineer work for sewer. (Lately noted voting \$50,000 sewer bonds.)

Okla., Chickasha—City will extend sewer and water system, approx. 20,000 ft. of pipe. Address The Mayor.

Okla., Muskogee—City will soon call for bids for about 9000 lin. ft. sanitary sewers. Address The Mayor.

Okla., Tulsa—City, T. D. Evans, Mayor, opens bids Apr. 24 to construct following storm sewers: across block 15, Riverside Addition, approx. cost \$6224.95; Boston Ave. from Latimer St. to Latimer Place, across blocks 1 and 2. Pouders-Pomeroy and Block 4, Adams Addition, approx. cost \$7828.75; and for sanitary sewer including laterals, connections and other appurtenances, for Sewer Dist. No. 182. (See Mch. Wanted—Sewer Construction.)

S. C., Florence—Lucas & Brunson will install 3200 ft. of pipe for sewer and water mains for Maple Park, suburban development.

S. C., Honea Path—Board of Public Works contemplates extending sewer system.

S. C., Walhalla—Comms. of Public Works let contract for complete sewer and water system as follows: Henry Construction Co., Greenville, S. C., for sewer and water within the city limits; Electric Construction Co., Charlotte, N. C., for gravity line to source of water in mountain; Poe Construction Co., Greenville, S. C., for pump and fire hose; Chicago Bridge and Iron Co., Chicago, for tank and tower.

Tenn., Cleveland—City, L. L. Woolen, Mayor, will construct storm sewers; \$200,-

000 available for streets, sewers, etc.; S. D. Newton, Engr.

Tenn., Lenoir City—City, S. H. Monger, Recorder, let contract to J. F. Marcum & Co., Knoxville, Tenn., to construct sewer system. (Lately noted.)

Tenn., Nashville—Board of Public Works opened bids April 18 to construct clay sewer on McFerris Ave.

Tenn., Paris—Board of Public Works will extend sewer and electric light plant; J. H. Weatherford, Consol. Engr., Porter Bldg., Memphis, Tenn.; W. J. Holman, City Engr.

Tex., McKinney—Sewer Improvement Dist. No. 1, improve sewer system, \$150,000 available; O. T. Murray, Collin County Judge.

Va., Radford—City, Paul J. B. Murphy, Mgr., will construct certain number of lin. ft. sewers; bids opened May 9. (See Mch. Wanted—Sewer Construction.)

Va., South Hill—City, Ralph Jessup, Mayor, will construct 6 mi. sewers, 2 mi. water main and electric light plant; bids opened May 10; J. B. McCrary Engineering Co., Atlanta, Ga., lately noted. (See Machinery Wanted—Sewers—Water and Light Equipment.)

W. Va., Charleston—City will install sewer between Clay Ave. and Charleston St. Address The Mayor.

W. Va., Huntington—City opens bids Apr. 28 to construct sewer in alley between 31st and 32nd Sts.; Mat Miser, Commr. of Streets and Sewers; lately noted. (See Mch. Wanted—Sewer Construction.)

Telephone Systems.

D. C., Washington—Washington Radio Corp., capital \$250,000, chartered by David L. Riordan, Jacob N. Halper and R. S. Knapp.

Fla., Gainesville—S. O. Shadwick, Mgr., The White House, contemplates installing radio telephone equipment in lobby. (See Mch. Wanted—Radio Equipment.)

Fla., Jacksonville—Southeastern Radio Telephone Co., capital \$10,000, inceptd. with John C. Cooper, Jr., Prest.; C. A. Hoyt, Secy-Treas.

S. C., Columbia—Wm. Anderson Clarkson interested in establishment of plant to mf. radio sets. (See Machinery Wanted—Radio Equipment.)

Tenn., Knoxville—Knoxville Radio Co., capital \$50,000, inceptd. by J. C. Duncan, Claud S. Reeder and John M. Thornburgh; acquired C. W. Radio Co.; plan extensive developments.

Va., Appalachia—Chesapeake & Potomac Telephone of Va., Mr. Whitehead, Mgr., Norton, Va., plans installing complete telephone system, approx. cost \$40,000.

Textile Mills.

Ga., Atlanta—Bags—Fulton Bag & Cotton Mill, erect boiler room; J. E. Sirrine & Co., Engrs., Greenville, S. C.

Ga., Augusta—Sibley Mfg. Co., install dye plant; J. E. Sirrine, Engr., Greenville, S. C.

North Carolina—Spinning Mill—Dixie Mercerizing Co., J. T. Lupton, Prest., Chattanooga, Tenn., contemplates erecting spinning mill in North Carolina or purchase plant in Chattanooga.

N. C., Charlotte—Silk Fibre—Francis R. LeBlanc, New York, interested in establishing silk fibre mill.

N. C., Elkin—City, R. W. Ring, Mayor, will construct about 5000 lin. ft. 8-in. sewer with manholes and flush tanks; bids until

May 8; Pegram & Reynolds, Consol. Engr., 501 Wachovia Bank Bldg., Winston-Salem, N. C. (See Mch. Wanted—Sewer Construction.)

Okla., Sand Springs—Ginghams—Charles Page interested in establishing gingham mill.

S. C. Trough—Pacolet Mfg. Co., Pacolet, S. C., will rebuild burned spinning department at Mill No. 5.

Tenn., Chattanooga—Hosiery—Davenport Hosiery Mills, 906 Georgia Ave., planning installation of hosiery machinery and auxiliary equipment.

Tex., Dallas—Hosiery—Texas Hosiery Mills, James C. Dobson, Prest., considering doubling capacity of plant.

Tex., Kingsville—Cotton—Kingsville Cotton Mills Co. is erecting plant 15,000 lbs. twin per week; install 4 finishing machines; 700 spindles; will enlarge and install looms and dyeing equipment.

Tex., Waco—Cotton—Miller Cotton Mills, J. F. Henderson, Prest., lately noted inceptd. will double capacity of plant; increased capital from \$1,000,000 to \$1,175,000.

W. Va., Parkersburg—Woolen—United Woolen Mills Co., increased capital from \$300,000 to \$500,000.

Water Works.

Ala., Andalusia—City will extend water works. Address The Mayor.

Ala., Evergreen—City will improve water works system, install centrifugal pump, air compressor, transformers, etc.; W. W. Hill, Consol. Engr., Auburn, Ala. (See Machinery Wanted—Water Works Equipment.)

Fla., Tampa—City votes May 23 on \$30,000 bonds for water supply, office building, etc. Address The Mayor. (Lately noted.)

Ga., Columbus—Flournoy Realty Co. will construct water works system in Peacock Woods Sub-division; W. A. Coates, Construction Co., Murfrah Bldg., Contr.

Ga., Tifton—City, W. T. Hargrett, Mayor, votes May 15 on bonds for extending water works system. (Lately noted.)

Ga., Warm Springs—Warm Springs Co., let contract to W. A. Coates Construction Co., Murrah Bldg., Columbus, to improve and extend water works system for hotel and cottages; construct concrete dam at Cascade Falls, 30 ft. long; 12 ft. high; dam site about 300 ft. above Warm Springs.

La., Haynesville—City voted \$45,000 water main extension bonds. Address The Mayor.

La., New Orleans—Sewerage and Water Board, Geo. G. Earl, Gen. Supt., let contracts for following work at water works: at \$28,915 for 2 boilers of 1520 to 1800 nominal H. P. to Lasker Iron Works, Chicago, Ill.; at \$20,175 for 2 motors to Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.; at \$9000 for centrifugal pumps to Dozier Pump and Machine Co., New York. (Lately noted.)

La., Winnsboro—City, H. G. Vaught, Mayor, votes in May (change in date) on \$80,000 bonds for water and sewer system; construct power house, tower and tank; N. A. Kramer, Magnolia, Miss., Engr. (Lately noted.)

Mo., Hollister—City, R. G. Campbell, Engr., having preliminary plans for water works and sewer system.

Mo., Mountain Grove—City, Jno. A. Dennis, Mayor, voted \$35,000 bonds for water works, paving and indebtedness.

Mo., Mt. Vernon—Missouri State Sanatorium will construct reservoir, capacity 100,000 gals.

N. C., Elkin—City, R. W. Ring, Mayor, will construct about 5000 lin. ft. 6x8-in. cast iron water mains together with 5 hydrants, valves and fittings, 1 reinforced concrete reservoir 100,000 gal. capacity; 200 gal. reinforced concrete filter and coagulation basin; filter house; bids until May 8; Pegram & Reynolds, Engrs., Winston-Salem. (See Mch. Wanted—Water Works.)

N. C., Kernersville—City, A. N. Linville, Mayor, will vote May 23 on \$58,000 bonds for water works. (Latey noted.)

N. C., Kinston—City, M. M. Happer, Mayor, will develop additional water supply; install 2½ in. 10-in. cast iron pipe, drill 2 or 3 wells, install pump, etc.; Wm. C. Olsen, Const. Engr.

N. C., Lexington—Town, J. A. Leonard, Mayor, let contract at \$96,000 to Tucker & Laxton, Charlotte, N. C. to construct water works on Abbot's Creek; cost including pumps and pipe about \$150,000. (Latey noted.)

N. C., Lumberton—Town, J. P. Russell, Clk., let contract to Tucker & Laxton, Charlotte, N. C. for water and sewer extensions; cost about \$80,000; Carolina Engineering Co., Wilmington, N. C., Engrs.

N. C., Marshall—Town, will expend \$50,000 for water works extension; 4000 gal. R. F. concrete reservoir, 150,000 gal. capacity; install duplicate chlorine sterilizer; concrete intake wier, \$400; 32,000 ft. 6 in. universal joint pipe; T. A. Cox, 78 Patton Ave., Asheville, N. C., Civil Engr. (Latey noted.)

N. C., Southern Pines—Town, R. L. Chandler, Clk., let contract to Virginia Machinery & Well Co., Richmond, Va., for water and sewers; for cast iron pipe to Glamorgan Co., Lynchburg, Va., Sewer pipe to Pomona Co., Greensboro, N. C., hydrants to R. D. Wood Co., Phila., Pa.

Okla., Ardmore—City, A. B. Payne, Clk., improve water works; Jeffries & Lindley, Engrs., Ardmore, V. V. Long & Co., Const. Engr., Oklahoma City. (Latey noted.)

Okla., Beggs—City voted \$50,000 water works bonds. Address The Mayor.

Okla., Bristow—City let contract to V. V. Long & Co., Oklahoma City, for engineer work on water works. (Latey noted voting \$50,000 bonds.)

Okla., Chickasha—City will extend water and sewer systems, approx. 20,000 ft. of pipe. Address The Mayor.

Okla., Fairland—City votes April 25 on issuance of \$23,033 bonds to construct and equip water works system; L. C. Overmiller, Prest. Board of Trustees.

Okla., Ponca City—City is having estimates prepared by engineers for water supply, 3500 gal. per minute. Address The Mayor.

Tex., Texline—City, H. H. Tate, Mgr. will erect water works plant; cost of building \$2000; cost of machinery \$17,500; amount to be expended \$17,500; E. W. Baker, Engr., Oklahoma City, Okla. (Latey noted.)

Okla., Tulsa—City, selected J. D. Trammell, Const. Engr., Fort Worth Tex., and W. R. Holway, Prest. of Holway Engineering Co., Tulsa, as engineers and Col. Dabney H. Maurey, Chicago, as Consultant for \$6,800, 000 water supply project; construct 55-ft. dam on Spavinaw Creek, conduit 55 mi. long, through which water will flow by gravity to storage reservoir at Mohawk; pumps will lift water to high pressure reservoir where it will be aerated and sterilized; conduit construction includes large river crossings and 1½ in. tunnel; bids will be opened in summer. (Previously noted.)

S. C., Florence—Lucas & Brunson will in-

stall 3200 ft. of pipe for water and sewer mains for Maple Park, suburban development.

S. C., Honea Path—Board of Public Works is extending water works system.

S. C., Sumter—City construct 6-in. water mains from Purdy St. to Walker Ave., 4-in. mains from Walker Ave. to and inside of cemetery. Address The Mayor.

S. C., Walhalla—Cmmrs. of Public Works let contract for complete water and sewer system as follows: Henry Construction Co., Greenville, S. C., for water and sewer system within city limits; Electric Construction Co., Charlotte, N. C., for gravity line to source of water in mountain; Poe Construction Co., Greenville, S. C., for pump and fire hose; Chicago Bridge and Iron Co., Chicago, for tank and tower.

Tex., Clarendon—City, will extend water works system; install elevated tank, 125,000 gal.; cost \$75,000; bids until May 10; Maude Clark Nelson, Clk., W. D. Howren, Engr., Box 72, Amarillo, Tex.

Tex., Dallas—City Comen. let contract to J. U. Jones, for 10,000,000 gal. pump to be installed at Bachman's Dam.

Tex., Jacksonville—City, Tom E. Acker, Mayor, will construct water works improvements, contracts No. 1 to No. 11 inclusive as follows: earth dam, control works and appurtenances, pump and filter plant buildings, basins, etc. cast iron pipe and fittings, materials only, valves, hydrants, etc., jointing materials, installing materials in contract Nos 3, 4, 5, pipe gallery and filter plant fittings and valves, filter controllers, gauges, venturi meter, electrically driven pumps and motors in place, oil engine and pump; water and fuel oil tanks; bids until April 28; H. N. Roberts, Engr., Box 9, Longview, Texas. (See Machinery Wanted—Water Works Improvements.)

Va., South Hill—City, Ralph Jessup, Mayor, will construct 2 mi. water mains, 6 in. sewer and electric light plant; bids opened May 10; J. B. McCrary Engineering Corp., Engrs., Atlanta, Ga.; latey noted. (See Machinery Wanted—Sewer—Water, Light Equipment.)

W. Va., Charleston—Mohler Realty Co. will construct water system in Mohler Addition; operated by West Virginia Water & Electric Co.

W. Va., Wheeling—City Mgr. Dowler recommended construction of 14-in. water main across river at Ninth St.; 4-in. line, 25th St. Market to Main; 8-in. line, 25th St.; 8-in. line, 22 St.; 6-in. line, Pierce; 4-in. line Bowman's addition; filtration plant, cost \$572,000; screen building, pumping station. (Latey noted.)

Woodworking Plants.

Ala., Birmingham—Barrels—Sandusky Cooperage Co., Toledo, O. plans establishing barrel and keg plant.

Fa., Daytona—Novelties—H. U. Whipple, erect plant for mfr. of novelties; purchased site.

Ga., Pelham—Crates—C. V. James interested in establishing \$100,000 crate plant.

Mo., Illinois—Boxes, etc.—Mesler Box Co., capital \$105,000, incptd. by M. H. Craig, C. V. and M. B. Holaday; mfr. 4-one wire bound boxes, etc.

Mo., Joplin—Pianos, etc.—National Piano Mfg. Co. of Arizona, capital \$29,817.56, incptd. by Walter Ioor, and H. A. Romyn, both Grand Rapids, Mich.; mfr. reproducing machines, music rolls, etc.

N. C., Goldsboro—Veneer—Utility Mfg. Co., J. L. Borden, Prest. will rebuild veneer plant,

installing veneer mch.; burned at loss of \$225,000.

N. C., Warsaw—Staves, etc.—E. B. Hinman Mfg. Co., (latey noted incptd., capital \$50,000) organized with E. B. Hinman, Prest.-Mgr.; L. B. Jenkins, Secy.; will open bids about June 1 for plant construction; install mch. for mfr. of staves, headings, boxes and crates, daily capacity 15,000 to 20,000. (See Mch. Wanted—Woodworking Machinery.)

S. C., Union—Novelties—Bailey Undertaking Co., T. E. Bailey, Prest.-Treas., contemplates establishing small novelty plant; install rip and cut off saw, band or scroll saw, jointer and sander, with motor power attached to shaft. (See Machinery Wanted—Woodworking Machinery.)

Tex., Grand Prairie—Step Ladders, etc.—Atlas Wood Products Co., organized with C. W. Arthur, Prest., Denton, Tex.; W. F. Bradley, Supt.; purchased established plant, remodel for mfr. of step ladders, churn dashers, etc.

W. Va., Princeton—Mill Work—Princeton Building Material Co., 2215 Walters Ave. (latey noted, incptd., capital \$100,000), organized with N. J. Jenkins, Prest.-Mgr.; W. E. Grady, Secy.-Treas.; daily output building materials. (See Machinery Wanted—Woodworking Machinery.)

FIRE DAMAGE

Ala., Birmingham—Hercules Powder Co.'s magazine; loss \$5000.

Ala., Birmingham—Dress Up Shop, 2023 Second Ave., owned by S. Rich. Malvina Fried and Natly Blederman; loss \$18,000.

Ala., Fort Deposit—C. M. Hartsell's saw-mill.

Fla., Fernandini—Mrs. H. J. Baker's residence.

Fla., Tampa—Starbuck Remilling Co.'s plant; loss \$30,000.

Ga., Columbus—Z. A. Brook's 3 buildings.

Ky., Bardstown—Mattingly & Moore Distillery; loss \$20,000.

Ky., Bonnierville—Samuel B. Jaggers, Will Parrish, Florence Cary, Hardy Jaggers, Yancy Bostick's stores; Elan Perkin's restaurant.

Ky., Packard—Mahan-Jellico Coal Co.'s tippie; loss \$25,000.

Md., Baltimore—Maryland Bag & Waste Co.'s storage shed on Bayard St., between Ridgely St. and railroad tracks.

Md., Catonsville—Jno. S. Wilson Lumber Co.'s lumber shed, Frederick Ave.; Henry S. Ashman, Samuel Rosenstein and Samuel Markham's buildings.

Md., Darnestown—Arthur W. Bell's garage.

Md., Hagerstown—Lewis H. Wiebel's wooden pin factory; loss \$25,000.

Md., Pocomoke City—Pocomoke National Bank; Citizens' National Bank; W. H. Clarke & Co., Lloyd & Blaine, N. Davis & Son, T. F. Hargis, H. W. Callahan & Sons, R. J. Landen, David Wiltbank, J. T. Smuller, Jr., Picken & Hall, M. I. Hellig, I. H. Merrill & Co., A. H. Stevens, W. M. Sartorius, M. L. Veasey, Cluff & Coulbourne, Matthews & Landford's stores; Stevenson Bros.' factory; Landing House; Western Union Telegraph office; Carter & Ellis' barber shop; Municipal Building; Electric & Ice Mfg. Co.'s offices; Empire Theater; Bunting Garage; Dr. R. Lee Hace, Norman E. Sartorius, A. A. Parker and W. H. Schofield & Co.'s buildings; residences of E. Chas. Ennis, Dr. W.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

H. Walter, Geo. Twilley, J. J. Smullen, Mrs. C. S. Day, Ewell & Child, Will Bounds, Robert Henry, Frank Wilson, Frank Lloyd, Chas. Higgins, Jacob Stevenson, David Miller, Frank Bratten, Wm. Powell, Jno. Dierckson, Geo. Bunting, Calvin Townsend, Lillie Stevens; Carter & Ellis' apartments; E. Fontaine's apartments; total loss \$750,000 to \$1,000,000.

Miss., Coldwater—Dr. J. E. Johnston's residence.

Miss., Shubuta—Floyd Bros. Mercantile Co.'s building; People's Bank; Penny Saver Store.

Miss., Summit—Summit High School; loss \$35,000. Address Board of Education.

Mo., Armstrong—J. E. Walkup's lighting plant.

Mo., St. Joseph—Grain Belt Mills Co.'s plant on Lake Contrary Rd.

N. C., Fayetteville—Jackson Brothers Lumber Co.'s plant; loss \$20,000.

N. C., Goldsboro—Utility Mfg. Co.'s veneer plant; loss \$225,000.

N. C., Greenville—A. L. Potter's store; loss \$12,000.

N. C., Lexington—Varner & Buchanan's business building; loss \$50,000.

N. C., Lexington—Motor Service Co.'s garage; loss from \$30,000 to \$40,000.

N. C., Seven Springs—Seven Springs Supply Co.'s building; postoffice and several stores.

N. C., Sanford—S. McEwin's residence on Moore St.

N. C., Smithfield—Co-operative Tobacco Growers Assn.'s warehouse building, owned by George T. Pool estate.

N. C., Thomasville—Public school (address School Board); G. R. Hooper and C. L. Harris' residences.

N. C., Washington—Leach-Winfield Garage, loss not estimated.

S. C., Cheraw—S. T. A. McManus' residence; loss \$20,000.

S. C., Gray Court—J. D. Rhodes' residence.

S. C., Greenville—J. O. Sutton's buildings; Manly Grain's dwelling.

S. C., Lamar—Dr. S. L. Parnell's building.

Tex., Fort Worth—E. H. Keller Automobile Works; loss \$15,000.

Tex., Orange—Southern Drydock & Shipbuilding Co.'s machine shop, etc.; loss about \$20,000.

Tex., Paris—Hague Mfg. Co.'s plant; loss \$40,000.

Tex., Yorktown—Yorktown Electric & Ice Co.'s plant; loss \$50,000.

Va., Elkton—Mayor L. H. Bruce's residence; Deputy Sheriff W. E. Lucas's residence.

Va., Goochland—Sabot Hill Mansion; owned by H. B. Allen, Detroit.

Va., South Boston—T. F. DeJarnett's residence on Halifax Rd.

Va., Thornburg—John Ashton's residence on Spotsylvania river.

W. Va., Grafton—Standard Garage Co.'s building; loss between \$12,000 and \$15,000.

Damaged by Explosion.

W. Va., Charleston—Columbia Salvage Co.'s magazine at ordnance depot.

W. Va., Charleston—Knights of Pythias plan to erect cottage plan home.

W. Va., Huntington—Knights of Pythias of West Huntington and Independent Order of Odd Fellows will erect lodge and office building at W. 14th St. and Madison Ave.; 3 stories and basement; 60x90 ft.

Bank and Office.

Ala., Birmingham—O'Neal's Lime Works, Inc., Dr. W. C. Gewin, Prest., will erect building at Tuscaloosa Ave. and Charles St. West End; cost \$300,000; 50x150 ft.; bank; 31 stores; 24 apartments; cinema theater to seat 3000; clinical section; W. L. Welton, Archt.

D. C., Washington—Hamilton Savings Bank, Joshua Evans, Jr., Vice-Pres. Riggs National Bank, in charge, will erect building at 14th St. and Park Rd.; 3 stories; bank and 9 store rooms; George N. Ray, Archt. (Lately noted.)

Fla., Plant City—DeVane Bros. and W. C. Amos will erect 2-story brick bank, store and office building on N. Drane and Collins Sts.; cost \$30,000; B. C. Bonfoey, Archt., Tampa; Mr. Amos in charge of construction. (Lately noted.)

Ky., Ashland—L. E. Payne Construction Co. has excavation contract for building for Ashland National Bank, Jno. A. Buckingham, Prest., Winchester Ave. and 16th St.; 100x100 ft.; cost \$700,000; fireproof; 11 stories; composition roof; concrete, terrazzo and marble floors; safes; interior tile; metal doors; vaults; wire glass; mail chutes; vault lights; steel sash and trim; steam heat with ventilating system for bank room; 2 direct traction and 1 geared traction elevators. Address Schenck & Williams, Archts., Dayton, O. (Lately noted.)

Ky., Hazard—Billie Baker will erect \$20,000 office and store building on Baker Ave.

Md., Salisbury—Citizens Gas Co., Wm. J. Downing, Prest., will erect 3-story building on E. Main St.

Mo., Kansas City—Chambers Building Co. will erect 7-story addition to building, 12th and Walnut Sts.; install elevators; Charles A. Smith, Archt.

N. C., Asheville—National Bank of Commerce will remodel building at 11 Church St.; marble exterior; Roland Greene, Archt.

Okla., Oklahoma City—Patterson Bldg. Co., 320-22 W. Main St., will erect 3-story addition; Layton & Smith, Archts. Address A. C. Alexander, Patterson Bldg.

Tenn., Wartburg—Citizens' Bank & Trust Co., Prest. H. W. Summer, Chrmn. Bldg. Comm., will erect 2-story brick building; 60x32 ft.

Tex., Amarillo—Guy A. Carlander, Archt., Massie Bldg., is preparing plans to erect \$45,000 office building; 30x140 ft.; 2 stories and basement; brick; terra cotta trim.

Tex., Colorado—National Bank, J. M. Thomas, Vice-Pres., will erect building at 2nd and Walnut Sts.; 2 stories.

Tex., Port Arthur—Capt. W. C. Tyrrell will erect 4-story office building on Lake View hotel site; cost about \$125,000; elevator; steam heat; F. W. Steinman & Son, Archts., 517 Kyle Bldg., Beaumont; bids opened May 10.

W. Va., Bluefield—R. W. Honaker will erect 5-story store and office building on Federal St.; cost \$70,000; 50x100 ft.; brick; stone trim; hardwood floors; steam heat; metal ceilings; wire glass; vault lights; ventilators; second, third and fourth floors joined by corridors to Coal & Coke Bldg.; Garry & Sheffey, Archts.; construction by day labor. (Lately noted.)

BUILDING NEWS

BUILDINGS PROPOSED

Apartment Houses.

Fla., Miami—N. L. Stevenson and Jos. L. Hickson will erect apartment house in Fort Dallas Park; cost \$550,000; fireproof; 5 and 6 stories; court 70x83 ft.; steel or reinforced concrete; hollow tile and curtain walls; Spanish tile roof; stucco; electric lights and heating system; automatic elevators; Hampton & Reinert, Archts.

Ga., Atlanta—Dr. Bernard Wildauer will erect St. Charles Court Apts., St. Charles Ave.; cost \$100,000; 16 apartments of 5 and 6 rooms; O. J. Southwell, Archt.

Ga., Atlanta—Mrs. Mary Willingham will erect brick apartment house at Boulevard and Pine Sts.; cost \$100,000; 4 stories; 23 apartments.

Mo., Kansas City—John G. Hiatt will erect 3-unit apartment building on Lawn Ave. between Scarritt and St. John Aves.; cost \$250,000; 84 apartments; 350 ft. frontage on west side Lawn Ave. and 245 ft. frontage on east side; 3 heating plants; Frank Lloyd Lang, Archt.

Mo., St. Louis—Best Realty and Investment Co., will erect apartment building in North Parkview.

Mo., St. Louis—Clifford B. Goodwin will erect apartment building at 5572 Clemens Ave.; 6 apartments of 5 rooms and sun parlor each.

Mo., St. Louis—C. W. Hopkins will remodel apartment buildings at Minerva and Hamilton Aves.; Weisels-Gerhart Co., Mgr.

Mo., St. Louis—A. F. Lerner will erect apartment building in North Parkview.

Mo., St. Louis—Victor E. Rhodes will erect

apartment building in North Parkview.

S. C., Charleston—A. F. Doscher Estate will erect apartment house on King St. near Broad St.; brick; fireproof; 3 stories; 6 apartments; David B. Hyer, Archt. (Lately noted.)

Tenn., Memphis—R. B. Clinton will erect 2-story stone apartment house, Willett and Poplar Sts.; cost \$12,000.

Tenn., Memphis—S. P. Goldfarb will erect apartment building on Bellevue Blvd. and Linden Ave.; cost \$140,000; 2 stories; 16 apartments of 6 rooms each, brick, terra cotta and concrete.

Tex., Houston—Mrs. Essie Harper will erect \$24,000 apartment building on Lamar Ave. and La Branch St.

Association and Fraternal.

Ark., Pine Bluff—Elks Lodge No. 149 will erect \$100,000 building; Mitchell Selligman, Archt.

Okla., Bristow—Ancient Free and Accepted Masons will remodel temple; cost \$15,000.

Tenn., Paris—Ancient Free and Accepted Masons will erect 4-story office and lodge building, S. Poplar and Blythe Sts.; electric elevator.

Tex., Coleman—Ancient Free and Accepted Masons will erect temple.

Va., Richmond—Henrico Union Lodge No. 130 plans to erect \$30,000 Masonic Temple on N. 25th St.

W. Va., Charleston—Elkana Lodge No. 63, Knights of Pythias, plans to erect \$200,000 store and office building at Dunbar and Quarrier Sts.; 6 stories.

Churches.

Fla., DeLand—St. Barnabas Episcopal Church will remodel building and erect study; cost about \$10,000. Address The Rector.

Fla., Miami—Church of The Holy Name. Rev. J. J. McLaughlin, S. J., will receive bids until June 15 to erect buildings for church; cost about \$300,000; reinforced concrete, plaster and curtain walls; O. J. Williams, Archt.; T. F. Hynes, Engr.; plans and specifications from office of owner. (Lately noted.)

Fla., Ocala—Mt. Moriah Baptist Church will erect building; cost \$54,000; W. A. Rayfield & Co., Archts., Birmingham, Ala.

Ga., Columbus—St. Luke Methodist Church will erect \$25,000 addition; 7 assembly rooms; 30 classrooms; auditorium to seat 1500; gymnasium, kitchen, lockers, etc., in basement; steam heat. Address The Pastor.

Ky., Louisville—Church of Christ, Rev. M. C. Kurfess, Pastor, plans to erect building at Halderman and Frankfort Aves., lately noted; cost about \$50,000; 50x75 ft.; brick; slate or composition roof; wood floors; Joseph & Joseph, Archts. (See Machinery Wanted—Seating.)

Md., Baltimore—Church of Prince of Peace, Walbrook and Ellamont Aves., Rev. Christopher P. Sparling, Pastor, plans to enlarge church and erect parish house and rectory; cost about \$60,000.

Md., Baltimore—Walbrook Presbyterian Church, Walbrook and Ellamont Aves., plans to enlarge building. Address The Pastor.

Mo., Springfield—Christ Episcopal Church will erect \$50,000 building; Hoener, Baum & Froese, Archts., St. Louis.

Mo., St. Louis—St. Pauls Presbyterian Church, Rev. Geo. A. Percival, Pastor, will erect \$27,000 chapel at Lillian and Ruskin Aves.

N. C., Chapel Hill—Methodist Church, Rev. Walter Patten, E. W. Knight, L. R. Wilson and others, Comm., will erect church and Sunday school at university; cost \$150,000 to \$175,000; brick and stone; J. G. Rogers, Archt., 367 Lexington Ave., New York. (Lately noted.)

N. C., Spencer—Christ Lutheran Church will erect building on Earnhardt St.; cost \$20,000 to \$25,000; brick and stone; auditorium to seat 350; Sunday School to seat 250. Address The Pastor.

N. C., Winston-Salem—Brown Memorial Church, Rev. W. D. Spinx, Pastor, plans to enlarge church or erect new building; E. L. Davis, Chrmn. Bldg. Comm.

Okla., Henryetta—Christian Church plans to erect building. Address The Pastor.

Okla., Henryetta—Presbyterian Church plans to erect building. Address The Pastor.

Okla., Hooker—Baptist Church will erect \$30,000 building; 2 stories and basement; reinforced concrete; hollow tile; pressed brick; pine trim; C. W. Bulger & Son, Archts., Dallas. Address W. A. Strickland, Hooker. (Previously noted.)

S. C., Great Falls—Methodist Church plans to erect building. Address The Pastor.

S. C., Greenville—Central Baptist Church, Dr. S. T. Matthews, Pastor, plans to erect building; plans drawn. Address G. C. Hobbs, Chrmn. Bldg. Comm.

Tenn., Carthage—Carthage Baptist Church, Rev. T. Riley Davis Pastor, will rebuild burned structure; cost \$20,000; 1 story and basement; fireproof; brick; auditorium to seat 485; 20 rooms on main floor, 5 rooms in basement; hardwood floors; steam heat; electric lights; rolling partitions; wire glass; R. H. Hunt, Archt., James Bldg., Chattanooga. Address The Pastor. (Previously noted.)

nooga. Address The Pastor. (Previously noted.)

Tenn., Memphis—Union Avenue Methodist Church, Rev. Robert A. Clark, Pastor, plans to erect church auditorium.

Tenn., Nashville—Belmont Heights Baptist Church, Rev. Geo. L. Hale, Pastor, will erect building.

Tex., Austin—East Avenue Baptist Church, Rev. H. C. Morrison, Pastor, will erect \$35,000 building; about 50x80 ft.; hollow fireproof tile, pressed brick and stone; asphalt slate shingle roof; concrete and pine floors; warm air fan system heat; vault; lights; C. W. Bulger & Son, Archts., Dallas. Address The Mayor. (Previously noted.)

Tex., El Paso—First Baptist Church, Rev. T. V. Neal, Pastor, will not erect building as lately reported.

Tex., Houston—Trinity Baptist Church, Rev. D. L. Griffith, Pastor, will erect \$90,000 Sunday School building on Hogan and Lorraine Sts., first unit of \$200,000 structure; 3 stories.

Va., Danville—Main St. Methodist Church plans to erect Sunday school and parsonage; cost \$100,000. Address The Pastor.

Va., Norfolk—Cumberland St. Methodist Church, Rev. E. L. Bain, Pastor, will erect building at Cumberland and Freemason Sts.; receiving competitive plans.

Va., Norfolk—Park Place Baptist Church, W. T. Gregory, Chrmn., Law Bldg., will erect auditorium and Sunday school, 31st and Colonial Ave.; cost \$250,000; receiving competitive plans.

City and County.

Ala., Gadsden—Home—Board of County Commissioners plans to erect building at county farm; cost \$12,000 to \$15,000; brick; steam heat; probably water and electric light systems.

Miss., Jackson—Municipal Auditorium—City plans to erect municipal auditorium to seat from 3000 to 5000. Address Board of City Commrs.

N. C., Charlotte—Market Building—City, Mayor J. O. Walker, Chrmn. Bldg. Comm., will erect city market.

Okla., Bristow—Assembly Building—City plans to erect assembly hall in park; cost \$15,000. Address The Mayor.

Tenn., Knoxville—Detention Home—City, E. W. Neal, Mayor, plans to erect juvenile detention home at Clinch Ave. and Henley St.

Tex., Houston—Exposition Building—Houston Permanent Exposition Board, Thomas Flaxman, Chrmn., will erect buildings.

Tex., Houston—Wm. Ward Watkin, Archt., is preparing plans and specifications for art museum; cost about \$160,000; reinforced concrete; Indiana limestone.

Va., Roanoke—Fire Station—City will erect fire station in Raleigh Court; cost \$15,000; Frye & Stone Co., Archt. (Previously noted)

Courthouses.

Miss., Vicksburg—Board of County Supervisors, J. G. Sherard, Clk., will receive bids until May 3 to repair courthouse and grounds; plans and specifications at office of Chancery Clerk.

N. C., Marion—Board of County Commrs. of McDowell County, J. Logan Lackey, Chrmn., will receive bids until May 17 to erect courthouse; plans after May 1 from Erle G. Stillwell, Archt., Hendersonville.

N. C., Rockingham—Board of County Commrs., B. F. Reynolds, Chrmn., will receive bids until May 3 to erect \$200,000 courthouse; separate bids for heating; 3 stories

and basement; brick, limestone and granite; Charles C. Hook, Archt., 207 Trust Bldg., Charlotte; plans and specifications at office of Register of Deeds, Rockingham, and office of Archt. (Lately noted.)

Tenn., Ducktown—Board of Commrs. of Polk County will vote \$20,000 bond issue to erect brick courthouse building.

Tex., Sarita—Willacy County will erect courthouse; \$75,000 bonds available. Address County Judge.

Va., King George—Board of Supervisors of King George County, R. H. L. Chichester, County Judge, will vote May 15 on bonds not to exceed \$15,000 to erect courthouse.

Dwellings.

Ala., Birmingham—T. H. Benners will erect \$20,000 residence in Milner Crescent.

Ala., Gadsden—O. H. Alford and J. V. Liles will erect 52 dwellings near Franklin and 16th Sts.; \$450 to \$1000 each; 3, 4 and 5 rooms; frame; composition roofs; pine floors; construction by day labor. (Lately noted.)

D. C., Washington—T. A. Jameson will erect 17 two-story dwellings, 1026-58 Quebec Pl., N. W.; cost \$70,000; construction by owner.

D. C., Washington—W. A. Dunigan will erect 10 2-story brick dwellings, 900-14 Madison St., N. W.; cost \$60,000; construction by owner.

D. C., Washington—M. M. Forbes will erect 2-story frame dwelling, 3527 Patterson St., N. W.; cost \$10,000; construction by owner.

D. C., Washington—Winfield Preston will erect 24 dwellings on Spring Road, N. W., near 16th St., third unit of 80-house project. (Lately noted in part.)

D. C., Washington—E. S. Beall will erect 2-story brick and frame dwelling, 3712 Ingomar St., N. W.; cost \$10,000; construction by owner.

D. C., Washington—G. G. Pumphrey will erect two 2-story brick dwellings, 710-712 Otis Pl., N. W.; cost \$10,600; construction by owner.

D. C., Washington—E. A. Smith will erect 3 two-story frame dwellings, 3901-03-05 Keokuk St., N. W.; cost \$21,000.

Fla., Eustis—J. D. Nichols, Cleveland, Ohio, is reported to erect residence on Orange Ave. and Dewey St.

Fla., Tampa—Chas. C. Dickinson, Chicago, will erect residence; M. Leo Elliott, Archt.

Fla., Tampa—J. W. Vandeventer, St. Petersburg, will erect residence; M. Leo Elliott, Archt.

Ga., Atlanta—Andrew Calhoun will erect residence on Pace's Ferry Road; Italian renaissance architecture; 125x45 ft.; 3 stories; plaster; tile roof; laundry; 2-story garage connected by covered passageway; Hentz, Reid & Adler, Archts.

Ky., Louisville—J. & J. Realty Co., Cecil and Elliott Aves., will erect 14 dwellings on Cecil Ave.; cost \$2500 each; 1 story, basement and attic; 6 rooms; frame; asbestos shingle roof; concrete basement; hardwood and pine floors; construction by owner.

Ky., Paducah—Gus Legeay will erect Colonial residence on Cairo Road.

Ky., Paducah—Dr. O. B. Powell will erect residence at 20th St. and Broadway; G. Tandy Smith, Archt.

Ky., Paducah—Govriel Rosenthal will erect Colonial bungalow on Jefferson St. between 16th St. and Fountain Ave.; G. Tandy Smith, Jr., Archt.

Ky., Paducah—Fred Speck will erect resi-

dence at Lang Park and Fountain Ave.; hollow rock tile stucco; Italian type; tile roof; D. Harry Jamieson, Archt.; bids opened.

Ky., Sergeant—Imperial Elkhorn Coal Co., McClelland Bldg., Detroit, Mich., will erect 10 miners' houses; contract let May 6. Address Detroit office.

Ky., Virgie—Pike-Elkhorn Coal Co. will erect 15 miners' houses; contract let May 1.

Md., Baltimore—John H. Coon, Boulevard Theater, will erect residence and garage on Norwood Road, near Highfield St., Guilford; cost \$12,000.

Md., Baltimore—G. Bernard Lohmuller, 3001 Greenmount Ave., will erect 5 dwellings, 29th St. near Greenmount Ave.; cost \$4000 each; 20x30 ft.; brick; Carey roofs; hardwood floors; hollow fireproof and interior tile; pipeless system heating; plans and construction by owner.

Md., Baltimore—Abraham Wise, 2618 E. Baltimore St., will erect 8 two-story dwellings, Forest Park and Oakfield Aves., and 3-story duplex apartment, Kathland Ave.; cost \$30,000; brick; Stanislaus Russell, Archt., 11 E. Lexington St. Address Mr. Wise.

Md., Baltimore—Thomas E. Hampton, Oswego Ave. and Old Pimlico Road; will erect 10 2-story dwellings on Hamilton Ave and Old Pimlico Road; cost \$30,000; brick; asphalt roof; concrete, hardwood and pine floors; hollow fireproof and interior tile; plaster board; steam heat; Stanislaus Russell, Archt., 11 E. Lexington St.; construction by owner. (Lately noted.)

Md., Baltimore—Wilhelm L'Allemand, 4005 Kathland Ave., will erect two 2-story frame dwellings, 3505-07 Granada Ave.; cost \$15,500.

Md., Baltimore—Arthur G. Wellington, 213 Ridgewood Road, Roland Park, will erect 2½-story hollow tile dwelling and garage on Wendover Road, near Greenway; 28.6x46.4 ft.; cost \$12,000.

Md., Baltimore—Cleveland R. Bealmear, 501 Title Annex Bldg., will erect 8 two-story dwellings and one 2-family house on Reisters-town Rd. and Ridgewood Ave.; cost about \$18,000; brick; slag roof; steam heat; electric lights; Geo. Wessel, Archt., 2752 Winchester St. (Lately noted.)

Md., Baltimore—Edgewood Development Co. will erect six 2-story frame dwellings, 3402-12 Forest Park Ave.; cost \$15,000.

Md., Baltimore—Francis E. Waters, Stafford Hotel, will erect 2½-story dwelling at Highfield St. and Greenway; 65x105 ft.; cost \$50,000.

Mo., Kansas City—Joe F. Gier will erect dwelling at 1223 Stratford Rd.; cost \$15,000; also 1229 Stratford Rd.; cost \$12,000.

Mo., Kansas City—A. P. Nichols Investment Co. will erect 5 dwellings on Wabash Ave. and 2 dwellings on Prospect Ave.; cost \$3000 each.

Mo., Kansas City—Bigham Building Co., Ira D. Bigham, Pres., will erect 30 dwellings at 51st St. and Wornall Rd.; cost about \$20,000 each.

N. C., Charlotte—J. L. Snyder will erect Colonial residence on Queens Rd., Myers Park; 3 stories; 15 rooms and baths; cost \$50,000; Earle S. Draper, Landscape Archt.; E. H. Clements & Co., Contrs.; M. E. Boyer, Archt.

N. C., Hamlet—Holburn-Utter are preparing plans for 17 residences; cost \$3000 to \$50,000.

N. C., Southern Pines—Eugene Byrnes will erect residence on Midland Rd., Knollwood.

N. C., Southern Pines—L. C. Fuller plans to erect residence on Midland Rd., Knollwood.

N. C., Wilson—J. W. Thomas plans to erect residence on Tarboro St.

N. C., Winston-Salem—J. Porter Stedman, Box 1362, will erect residence in Buena Vista; cost about \$15,000; 8 rooms, 3 baths, sun parlor; brick and tile; slate or tile roof; hardwood and concrete floors; vapor heat, about \$1500; hollow fireproof and interior tile; G. Gilbert Humphreys, Archt.; bids opened April 22. Address J. P. Stedman. (Lately noted.)

S. C., Columbia—M. S. Chipley will erect residence; cost \$100,000; 16 rooms, marble columns; mahogany interior finish.

Tenn., Chattanooga—Edward J. Walsh will erect 3 dwellings on Whitehall Hill opposite Cameron Hill.

Tenn., Memphis—German Evangelical Lutheran Church, Rev. M. Brueggemann, Pastor, will erect brick veneer parsonage on Avalon Place near Poplar Ave.

Tenn., Memphis—T. R. Boyle will erect residence on S. McLean Blvd. near Central Ave.

Tenn., Memphis—John McGregor will erect Dutch colonial residence on Angelus Pl.; cost \$12,000; brick and stonekote; J. F. Smith, Archt.; Mann & Gatling, Asso. Archts.

Tenn., Memphis—R. M. Metcalf will erect residence on Poplar Pike near Colonial Country Club.

Tenn., Memphis—Ivy Monahan will erect residence on Overton Park Ave. near Overton Park; cost about \$10,000; Colonial style; 2 stories; brick; J. F. Smith, Archt.

Tenn., Memphis—Palmer Bros. will erect 3 brick veneer bungalows on Court Ave. near Cooper St.; total cost \$18,750.

Tenn., Memphis—John Laurenski will erect 7-room brick veneer dwelling, 1214 N. Parkway; cost \$10,500.

Tex., Austin—Dr. E. P. Wilnot will erect 1½-story brick veneer residence, 9th and San Antonio Sts.; Colonial style; cost about \$25,000; C. H. Page & Bro., Archts., Austin National Bank Bldg.; bids opened.

Tex., San Antonio—Major H. A. Violland will erect residence on Carson St. between Pierce and Palmetto Sts.; 6 rooms and bath; hardwood floors; C. B. Schoeppl & Co., Archts.

Tex., San Antonio—Wm. Church will erect residence in Terrell Hills; Ralph H. Cameron, Archt.

Government and State.

Tex., Austin—Repairs Capitol, etc.—State Board of Control, S. B. Cowell, Chrmn., will repair Governor's mansion; also roof, ceilings, dome and steps of capitol and paint window frames; \$45,350 appropriation available.

Tex., Corsicana—Administration Building—State Board of Control, S. B. Cowell, Chrmn., Austin, will remodel and erect additions to administration building, dining hall and boys' dormitory at Orphans' Home; H. O. Blandling, Archt., Corsicana.

Tex., Fort Sam Houston—Psychiatric Ward Constructing Quartermaster will erect psychiatric Ward building; 28x80 ft.; 2 stories; reinforced concrete foundation; brick walls; slate and tin roof; concrete and wood floors; steam heat; electric lights; plans by Surgeon General, Washington, (Q. M. Dept.); Sumner Sollitt Co., Chicago, low bidder at \$34,724 (semi-fireproof), at \$38,356 (fireproof); Reiwald Company, plumbing at \$5453. (Lately noted.)

Va., Richmond—Office Building—State plans to erect office building on 12th and Bank Sts.; cost \$750,000; 7 stories; Heard & Chesterman, Archts., Lynchburg.

Hospitals, Sanitariums, Etc.

Miss., Biloxi—Jefferson Davis Soldiers' Home will erect \$100,000 hospital building.

Mo., Mt. Vernon—State Sanatorium will erect convalescent building and additions to domestic, medical and Bufford buildings; cost \$170,000.

N. C., Sanatorium—Joint Building Comm., H. A. Underwood, Engr., Raleigh, will receive bids until Apr. 29 to erect Refractory and Negro Division buildings, including plumbing and heating, for North Carolina Tuberculosis Sanatorium; Chas. C. Hook, Archt., Charlotte; plans and specifications from office of architect, and from Joint Building Comm.

Tenn., Memphis—Dr. Willis C. Campbell will erect 2-story addition to orthopedic clinic on Madison Ave.; 75x80 ft.; fireproof; reinforced concrete and brick.

Tenn., Memphis—Drs. Eugene Rosamund and Edward Clay Mitchell will erect children's clinic at Madison Ave. and Somerville St.; Grecian style; hollow tile and stonekote; cost \$30,000; Mahan & Broadwell, Archts.

Tex., Amarillo—Board of Commissioners of Potter County will erect reinforced concrete hospital building; Guy A. Carlander, Archt., Massie Bldg.; \$260,000 bonds voted.

Tex., New Braunfels—City Hospitals, Mrs. H. V. Schuman, Chrmn. Bldg. Comm., will erect addition to building; bids opened Apr. 24; C. V. Seutter, Archt., 423 Moore Bldg., San Antonio. (Previously noted.)

Va., Lynchburg—State Epileptic Colony Board of Trustees will erect dormitory for 50 females; \$42,500 appropriation available.

W. Va., Wheeling—North Wheeling Hospital will remodel building adjoining for nurses' home; 3 stories; cost \$15,000.

Hotels.

Md., Baltimore—Chas. E. Whitehurst, 18 W. Lexington St., and other local and out-of-town capitalists are promoting organization of trust company with capital of \$5000,000; plan also to erect 20-story commercial hotel of 1600 rooms, cost of structure not included in capital stock of trust company.

Miss., Jackson—L. C. Enochs Estate will rebuild Edwards Hotel; 8 stories.

Okla., Texoma—Hotel Committee, Frank A. Sewell, Chrmn., will erect hotel; 2 stories; brick, tile and mill construction; bids opened Apr. 27.

Tenn., Knoxville—S. R. Rambo, W. J. Savage and others are interested in organization of company to erect addition to Whittle Springs Hotel; 65 to 75 rooms.

Va., Galax—G. L. Felts is promoting erection of hotel; 4 stories.

W. Va., Charleston—Worthy Hotel, Wm. Frank, Mgr., will erect additional story to hotel; 20 rooms.

Miscellaneous.

Fla., Miami Beach—Clubhouse—Miami Beach Bay Shore Co. will remodel and erect addition to clubhouse; install 4 shower baths with marble partitions and tile bath, etc.; August Geiger, Archt., Miami.

Md., Catonsville—Lumber Shed—John S. Wilson Lumber Co., will rebuild lumber shed noted burned.

Md., Govans—Lockers—Rolling Road Golf Club will erect 2 frame additions to locker house; cost \$20,000; 2 stories; 25x50 ft. each; 525 lockers; Walter M. Gieske, Archt., 65 Gunther Bldg.

Mo., Springfield—Home—Children's Home Trustees, Ed. V. Williams and others, Fort Ave. and Ross St., plan to erect addition and install oil heating system.

Tenn., Sweetwater—Restaurant—D. D. Collins will erect building on Front St.; 2 stories; 25x80 ft.; brick.

Tex., Fort Worth—Clubhouse—Fort Worth Automobile Club will remodel Moslah Temple Mosque for clubhouse; erect boathouse, etc.

Va., Richmond—Amphitheater—Virginia Historical Pageant, Wm. Cridlin, Secy., Mutual Bldg., will erect amphitheater in Bryan Park; frame; Chas. M. Robinson, Archt., Times-Dispatch Bldg.

W. Va., Huntington—Market—M. Broh will erect market house on 3rd Ave. between 6th and 7th Sts.; cost \$30,000; 60x200 ft.; construct arch-way connecting it with city market.

Railway Stations, Sheds, Etc.

Fla., Miami—Hollywood Land & Water Co., J. W. Young, Prest., Columbia Bldg., will erect depot in connection with development of town between Hallandale and Dania to be known as Hollywood-by-the-Sea; 145x32 ft., with 2 wings 160 ft. each and covered platform 475 ft.; stucco finish; tile cornice; Rubush & Hunter, Archts., American Central Life Bldg., Indianapolis, Ind. (Previously noted.)

Md., Baltimore—Maryland and Pennsylvania Terminal R. R. Co., E. E. McLellan, Engr., M. W., will erect freight shed and office; 52.5x306 ft.; cost \$10,000.

Schools.

Ala., Greenville—City School Board, O. A. Lane, Prest., will receive bids until May 10 to erect building; cost \$30,000; 8 classrooms and auditorium; brick; metal roof; hardwood floors; plaster board; ventilators; rolling partitions; steam heat; electric lights; plans and specifications at office City Clerk. (Lately noted.)

Ark., Hope—Hope School Dist. will erect school; cost \$15,000; 8 rooms; brick veneer; metal ceilings; rolling partitions; edge grain floors; gas radiators; electric lights; Witt & Sibert, Archts., Texarkana; bids opened about May 1. Address E. S. Greening, Hope. (Lately noted.)

Fla., Jacksonville—Duval County Board of Public Instruction, Dr. Fons A. Hathaway, Supt., will erect addition to Central Grammar school; Rutledge Holmes, Archt.; also erect addition to Davis School; Mark & Sheftall, Archts. (Lately noted.)

Fla., Jacksonville—Duval County Board of Public Instruction, Dr. Fons A. Hathaway, Supt., will erect addition to Duval High School; Greeley & Benjamin, Archts.; bids opened. (Previously noted.)

Fla., St. Augustine—State Board of Control, P. K. Yonge, Chrmn., will receive bids until May 8 at Aragon Hotel, Jacksonville, to erect addition to building at Florida School for Deaf and Blind; drawings and specifications at office Edwards & Sayward, Archts., Chamber of Commerce Bldg., Atlanta, Ga.; president of school, St. Augustine; offices Builders' Exchange, Atlanta; Master Builders' Assn., Jacksonville; obtainable at office architects.

Fla., Stuart—County Board of Public Instruction, West Palm Beach, will erect brick or brick and tile grammar and high school in Stuart, 2-room brick or brick and tile school in Salerno and 2-room frame school in or near Lincoln Park Addition; \$60,000 bonds voted. (Lately noted.)

Ky., Brookville—Board of Education, Geo. Metzake, Clk., will erect school; 2 stories; brick; J. T. Gillig, Archt., 112 E. Pleasant St., Cynthiana.

Ky., Hazard—Perry County Board of Edu-

cation will erect 6 schools; contracts let by May 1.

Ky., Whitesburg—Letcher County School Board, Geo. Clarke, Supt. of Schools, will erect 3 schools.

La., Cedar Grove—District No. 19 will vote May 16 on \$150,000 school bonds. Address Caddo Parish School Board, Shreveport.

Md., Westernport—Alleghany County School Board, Cumberland, will erect proposed school; Indiana limestone, structural and ornamental steel; tile floors; bids opened about Apr. 25; Chas. M. Anderson, Archt., 324 N. Charles St., Baltimore.

Miss., Collins—Board of Trustees, Prof. E. E. Allen, Supt. of Schools, will erect school building.

Miss., Crowder—City, H. A. Arnold, Mayor, will receive bids until May 2 to erect school; plans and specifications at office S. Edward Lester, Clerk.

Miss., Durant—City will vote May 1 on \$80,000 bonds including \$10,000 for improvements and additions to school.

Miss., Jackson—School Board plans to erect negro school.

Miss., Starksville—City will vote May 1 on \$25,000 bonds to erect school. Address School Board. (Lately noted.)

Mo., Blodgett—Blodgett Consolidated School Dist. Trustees will erect high school; \$25,000 bonds voted.

Mo., Columbia—Board of Education will erect school on Sexton Road; bids opened April 24.

Mo., Columbia—University of Missouri, Ewd. E. Brown, Bus. Mgr., will receive bids until May 6 to rebuild mechanics art building; also for extension of medical building; separate bids for construction of building, heating, plumbing and wiring; plans and specifications at office Jas. P. Jamieson and Geo. Spearl, Archts., 1116-26 Arcade Bldg., St. Louis, and office Western Contractor, 521 Locust St., Kansas City. (Previously noted.)

Mo., Kansas City—City Board of Education will erect Northeast Junior High School.

Mo., Poplar Bluff—City School Board will erect building; 8 rooms; brick; steam or hot water heat; Martin Laubis, Archt. Address P. C. Hayes, Secy., School Board. (Lately noted.)

Mo., Warrensburg—Central Missouri State Teachers' College Board of Regents, R. J. Grover, Prest., will receive bids until May 5 to erect assembly hall addition and administration building; cost \$150,000; sandstone; cafeteria in basement; plans and specifications at office Samuel M. Hitt, Archt., Main St., and office Western Contractor, 521 Locust St., both Kansas City. (Lately noted.)

N. C., Boiling Springs—School Board will erect building; 5 rooms and auditorium; brick.

N. C., Candler—Buncombe County Board of Education, Asheville, will erect high school; cost \$40,000; 85x134 ft.; brick and frame; built-up roof; oak floors; combined auditorium and gymnasium, 12 class rooms, teachers' and principal's office, library; bids opened April 25; Smith & Carrier, Archts., Asheville. (Lately noted.)

N. C., Canton—City School Board, H. D. Seerest, Secy., will receive bids until May 5 to erect high school; plans and specifications at office Ronald Green, Archt., 407 Oates Building, Asheville.

N. C., East Durham—Durham County Board of Education, Jno. W. Carr, Jr., Supt., Durham, will erect addition to school; brick; Linthicum & Linthicum, Raleigh, probable

architects; will vote latter part of May on \$40,000 bonds.

N. C., Kings Mountain—School Board, W. L. Plonk, W. A. Ridenhour and others, will erect school auditorium and convert present auditorium into classrooms; \$50,000 bonds voted.

N. C., Spring Hope—Stanhope School Dist. voted \$20,000 bonds to erect school building. Address School Board.

Okla., Bristow—Board of Education plans to issue \$45,000 bonds to improve school buildings.

Okla., Cement—School District No. 76, H. E. Black, Prest., R. R. No. 3, will erect building; bids opened.

Okla., Norman—Board of Education, Chas. Stanley, Secy., will erect 2 ward schools; 1 story; brick and concrete; cost \$110,000.

Okla., Oklahoma City—City, J. G. Stearley, Clk., plans bond issue for improvements to include erection of high school; 40 rooms; remodel and fireproof McKinley School; erect 6-room addition to Columbus School; 4-room addition to Shields Heights School; 4-room grade school north of 43rd St.; 6-room building for Wilson School; 4-room structure for Whittier School, etc.; election April 25 on \$1,900,000 bonds. (Previously noted.)

Okla., Purcell—Board of Education called election to vote on \$75,000 bonds to erect high school.

S. C., Abbeville—City Board of Education, W. M. Barnwell, Chrmn., will receive bids until May 4 to erect high school; cost about \$100,000; plans and specifications at office of G. Lloyd Preacher & Co., Archts.-Engr., Healey Bldg., Atlanta. (Lately noted.)

Tenn., Crossville—School Board will erect proposed building; \$20,000 bonds sold.

Tenn., Memphis—City Board of Education, L. C. Humes, Prest., will remodel and erect addition to A. B. Hill School; cost \$90,000; 3 stories and basement; 9 classrooms, library, nurses' room, play rooms, etc.; Jones & Furbringer, Archts.

Tenn., Tazewell—A. K. Sharp is Chrmn. of Commission to erect memorial school; 2 stories; 12 rooms and auditorium; brick; bids opened; Clerk & Master, Archts.

Tex., Anahuac—Anahuac Independent School Dist. Trustees will erect addition to building.

Tex., Beaumont—South Park Independent School Dist. Trustees will erect high school; cost \$200,000; T shape; 3 stories; 250x204 ft.; gymnasium, 72x76 ft., to seat 500; auditorium with balcony to seat 1200; also erect \$12,000 economics and \$30,000 colored school in connection; former, 1 story; 100x150 ft.; R. H. Hunt Co., Archt., Dallas, Tex., and Chattanooga, Tenn. (Previously noted.)

Tex., El Campo—School Board will erect high school, ward school and negro school; brick and concrete; bids opened April 26 on general bids and sub bids for plumbing, heating and wiring; C. H. Page & Bro., Archts., Austin. (Previously noted.)

Tex., Dallas—Trinity Heights Independent School Dist. Board of Trustees, Percy A. Weaver, Secy., will erect high school; Lester N. Flint Co., Archt., Andrews Bldg.; bids opened. (Lately noted.)

Tex., El Paso—School Board, Chas. S. Ward, Chrmn., will erect 8-room additions to Manhattan, Grandview and Morehead schools; also 12-room building, first unit of proposed 24-room school at Hadlock Pl.; J. S. Patten, Supervising Archt. (Lately noted.)

Tex., Goose Creek—Goose Creek Independent School Dist. Trustees, Geo. T. Gallo-

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way, Prest., will receive bids until May 3 to erect high school; brick; plans and specifications at office C. H. Page & Bro., Archts., Austin.

Tex., Hedley—Hedley Independent Dist. School Board, T. R. Moreman, Prest., will erect building; Will R. Kaufman, Archt., Amarillo; bids opened.

Tex., Hillsboro—School Board, Jno. G. Reed, Prest., will erect 2-story brick school; J. O. Galbraith, Archt.; bids opened. (Lately noted.)

Tex., Lubbock—Board of Education will erect high school and 3 ward schools; \$150,000 bonds voted.

Tex., Maysfield—Maysfield School Dist. No. 63 will erect building; 2 stories; brick; \$17,000 bonds sold. Address Dist. School Trustees.

Tex., Nacogdoches—Board of Regents, Texas State Normal Colleges, H. A. Turner, Secy., Texas Bank & Trust Co., will receive bids until May 6 to erect 3 story fireproof administration building; also mechanical equipment for Stephen F. Austin Normal College; cost \$17,000; plans and specifications at office W. E. Ketchum, Archt., 707 Littlefield Bldg., Austin. (Lately noted.)

Tex., Palestine—Board of Education will erect school; cost \$23,000; brick; Theo. S. Moffitt, Archt., bids opened. (Lately noted.)

Tex., Sealy—Board of School Trustees, R. A. Engelking, Secy., will receive bids until May 1 to erect high school; separate bids for general work, heating, plumbing and electric wiring; plans and specifications at office Alfred C. Finn, Archt., Foster Bldg. and office Mr. Engelking.

Tex., Sherman—City will vote May 12 on \$100,000 bonds to enlarge high school.

Tex., Sipe Springs—School Board, Lon Foster, Secy., will erect building; 2 stories; brick; A. B. Withers, Archts.; bids opened.

Tex., Weslaco—Weslaco Independent School Board, A. S. Pike, Secy., will receive bids until April 29 to erect high school; cost \$60,000; 9 classrooms, auditorium, gymnasium, library and offices; reinforced concrete, brick and hollow tile; Barrett specification roof; rift pine and concrete floors; individual classroom heaters; electric lights; Smith & Kelly, Archts., Natl. Bank of Commerce Bldg., San Antonio. (Lately noted.)

Va., Belspring—Pulaski County Board of Education, Pulaski, will erect following schools: Dublin, cost \$20,000; Belspring, \$16,000; Belford, \$1800; New River, \$2800. (Previously noted.)

Va., Norview—Norfolk County School Board, Portsmouth, will erect schools at Bay View and Norview.

Va., Petersburg—Rives Dist. School Board, Jos. Wood, Clk., Route No. 2, will receive bids to erect proposed high school.

Va., Roanoke—School Board, D. W. Persinger, Chrmn., will receive bids until May 1 to erect elementary school in South Roanoke; cost about \$75,000. (Lately noted.)

W. Va., New Martinsville—County Board of Education will erect high school; \$149,000 bonds voted. (Lately noted.)

W. Va., Triadelphia—Board of Education, S. S. Jacoby, Jr., Secy., will receive bids until April 28 to erect schools at Park View and Triadelphia; plans and specifications at office F. F. Faris, Archt., Wheeling, and Board of Education, Triadelphia.

Stores.

Ala., Brewton—May Candy & Grocery Co., will erect building; 2 stories; cost \$10,000 to \$15,000.

Fla., St. Petersburg—Carley & Robinson will erect business building on Second Ave.; 20 store rooms.

Fla., St. Petersburg—Mrs. Hattie Haines will erect business building at Central Ave. and Third St.; 4 stories.

Fla., Tampa—W. Z. Turner will erect 3 stores at 1310-14 Central Ave.; cost \$10,000; 60.6x58.3 ft.; 1 story; brick; concrete foundation.

Fla., Ybor City—E. M. Bergman will erect building at 7th Ave. and 21st St.; 70x65 ft.; brick; M. Leo Elliott, Archt., Tampa.

Ky., Hazard—P. W. Gault and others will erect 2 business buildings and 10 residences; contract by May 5.

Ky., Lexington—J. D. Purcell, Main St., will erect addition to store bldg.; 5 stories; 40x220 ft.; brick; Arthur Giannini, Archt., 267 E. High St.

Ky., Whitesburg—Sam Hart & Son will erect business building; cost \$20,000; contract by May 10.

Md., Catonsville—Henry S. Ashman will erect business building to replace burned structure.

Md., Pocomoke City—M. L. Veasey will erect 2 business buildings to replace burned structures.

Miss., Meridian—Wm. Poppenheimer will erect building to replace structure lately noted burned; 3 stories.

Miss., Ripley—Thos. E. Pegram, Prest. Bank of Ripley, will erect building on S. Main St.; 1 story; brick.

Mo., Jefferson City—Max Meyerhardt will erect business building on High St.

Mo., Kansas City—J. W. McCallum Construction Co. will erect building, 1317-19 Walnut St.; 2 stories; brick; cost \$20,000.

Mo., Poplar Bluff—J. P. Howard will erect store at 7th and Kinzer Sts. to replace burned structure.

Mo., St. Louis—M. J. Miller will expend \$16,000 to remodel building at 10th and Market Sts. for stores.

N. C., Mount Airy—Jackson Bros. will erect building on Main St.; 50x116 ft.; 3 storerooms and 8 offices.

N. C., Winston-Salem—Mrs. F. J. Liffert will erect building for stores and offices; cost \$15,000; 2 stories and basement; 25x100 ft.; brick and steel; Barrett roof; concrete, maple and tile floors; plaster board; wire glass; steel sash and trim; vault lights; ventilators; bids opened; C. Gilbert Humphreys, Archt. (Lately noted.)

S. C., Greenwood—Rush Bros., Greenville, will erect 10 brick stores.

Tenn., Memphis—Mrs. Virginia Frazer Boyle will erect store building at Union Ave. and Camilla St.; cost \$10,000; 1 story; brick; also remodel present dwelling for apartments; Hanker and Cairns, Archts.; construction under supervision of Marx & Bensdorf.

Tenn., Memphis—A. Mahon will erect store and apartment building, 800 Vance St.; cost \$15,000.

Tenn., Memphis—C. Muller, 351 Vance Ave., will erect store at Main St. and Calhoun Ave.; 1 story; brick and tile.

W. Va., Davy—A. E. Wolford, McDowell Co., Bank Bldg., Welch, prepared plans for store and apartment building; cost \$30,000; 3 stories and basement; 48x90 ft.; brick; stone trim.

W. Va., Harrisville—T. F. Meats & Son will erect business building; 2 stories and basement; 52x52 ft.; stone; Dennis Daley, Archt., 1221 Lynn St., Parkersburg.

Warehouses.

Ga., Atlanta—Massell Realty Co. will erect warehouse at 25 Stewart Ave. for M. W. Woodson; cost \$30,000; brick.

BUILDING CONTRACTS AWARDED

Apartment-Houses.

D. C., Washington—Charles H. Davidson will erect 6-story brick and stone apartment house, 2308 Ashmead Pl., N.W.; cost \$300,000; Weller Construction Co., Contr.

Fla., Tampa—G. F. Bowers will erect 2-story apartment house at 107 S. Fielding Ave.; cost \$10,200; 36x62 ft.; 4 apartments; G. F. Cooper, Contr.

Ga., Atlanta—J. A. Gumm will erect apartment house, Ponce de Leon Ave. near Druid Hills; Colonial style; cost \$75,000; 2 stories; 8 apartment of 5 to 6 rooms; brick; A. F. N. Everett, Archt.-Contr.

Ky., Paducah—A. C. Torian will erect double apartment building on N. 6th St.; D. Harry Jamieson, Archt.; Gus. Lockwood, Contr.

Md., Baltimore—Joint Ownership & Construction Co., 323 N. Charles St., will erect apartment house at Somerset Road and Roland Ave.; cost \$75,000; 67x40 ft.; 3 stories; brick; slate roof; steam heat; Colonial design; 6 apartments; combination sun and sleeping porches; Roy G. Pratt, Archt., 323 N. Charles St.; A. F. Fedili Co., Contr., Continental Bldg.

Md., Baltimore—Roland Park Co., 332 N. Charles St., will erect apartment house, St. Paul St. north of 34th St.; cost \$140,000; 110x100 ft.; slag roof; steam heat; fireproof; 4 and 5 stories; Parker, Thomas & Rice, Archts., 1109-11 Union Trust Bldg.; Hicks, Tase & Norris, Contrs., 106 W. Madison St.

Okla., Muskogee—Claude Peters will erect apartment house; cost about \$50,000; 2 stories; stores on first floor; Diekmann & Niemann, Contrs.

S. C., Charleston—Edward J. Murphy will erect apartment house at Rutledge Ave. and Beaufain St.; cost \$300,000; 3 stories; 30 suites; reinforced concrete; concrete roof; hardwood and concrete floors; steam heat; city lighting; hollow fireproof and interior tile; ornamental terra cotta; wire glass; mail chutes; ventilators; steel sash and trim; G. Lloyd Preacher & Co., Archts. and Engrs., Atlanta and Augusta, Ga., and Raleigh, N. C.; Palmer-Spivey Co., Contr., Charlotte, N. C.

Bank and Office.

Ala., Gadsden—First State Bank will erect brick building; contract let.

Fla., Daytona—H. U. Whipple, Propr., Magnolia Novelty Works, Daytona, has contract for the rebuilding of Atlantic Block for a modern store and office building.

Fla., Daytona Beach—Atlantic Bank & Trust Co. will erect \$56,000 building; Roman Doric architecture; 32x68 ft.; stone; built-up roof; concrete, tile and marble floors; interior tile; metal doors; vaults; hot water heat; city lights; Fuquay & Gheen, Inc., Archts. and Contrs.

Fla., St. Petersburg—R. H. Sumner will erect \$80,000 store and office building; 5 stories; 50x100 ft.; concrete, brick and steel; Barrett roof; pine floors; steam heat; elevators, \$6500; Edgar Ferdon, Archt.;

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Holladay & Roundtree, Contrs. (Lately noted.)

Fla., Tampa—Franz Safe & Lock Co., Jacksonville, has contract for vaults, safes and safety boxes for Bank of Commerce. (Lately noted to expend \$20,000 to improve building.)

Fla., West Palm Beach—Florida Guaranty Corp., D. F. Dunkle, Prest., will erect 7-story office building at Olive and Datura Sts.; 90x92 ft.; stores on first floor; 90 suites or 180 offices above; Harvey & Clark, Archts.; Brown & Wilcox, Contrs. on percentage basis. (Lately noted.)

N. C., Charlotte—Dr. J. C. Montgomery, Stevens Yarn Co., Earle Whitton and H. A. Morson will erect 2-story brick building in Brevard Court in rear of Latta Arcade; cost \$22,000; Southeastern Construction Co., Contr.

N. C., Mount Holly—Central Bank & Trust Co. will erect building; 2 stories and basement; cost \$40,000; brick; composition roof; concrete, tile and hardwood floors; steam heat; electric lights; safes; vaults; offices and stores on first floor; hotel on second; C. C. Hook, Archt., Charlotte; W. Otis Pratt, Contr.

Okl., Tulsa—National Bank of Commerce Building Co. will erect bank and office building, 3rd St. between Main & Boston Sts.; 5 stories; cost \$300,000; considering 7 stories to cost \$390,000; 55x110 ft.; steel; cement and steel floors; Wight & Wight, Archts.; Long Construction Co., Contrs., both Kansas City, Mo.

Churches.

D. C., Washington—Emory Methodist Church will erect building on Georgia Ave., Brightwood; 1 story, gallery and basement; cost \$60,800; Milburn, Heister & Co., Archts., 710 14th St., N.W.; Frank Genechesi, Contr. (Previously noted.)

Ga., Atlanta—Grace M. E. Church, South, Rev. A. G. Shankle, Pastor, will erect \$45,000 addition; seat 750; brick; slate roof; tile and hardwood floors; hollow fireproof and interior tile; R. S. Pringle and F. P. Smith, Archts., Atlanta Trust Bldg.; Griffin Construction Co., Contr., Candler Bldg.

Mo., St. Joseph—First Presbyterian Church will erect \$60,000 Sunday school addition; brick; stone trim; kitchen; gymnasium, clubrooms, etc. in basement; Eckel & Aldrick, Archts.; Lehr Construction Co., Contr.; plumbing, C. L. Kennedy; electric work, American Electric Co.

N. C., Hamlet—Presbyterian Church will erect building; cost \$34,000; 70x80 ft. including Sunday School department; Gothic architecture; slate and tin roof; probably oak floors; rolling partitions; wire glass; electric lights; H. D. Harrell, Archt., Bennettsville, S. C.; Carolina Construction Co., Contr., Hamlet.

Tenn., Clarksville—Church of Christ, Rev. J. P. Malphus, Pastor, will erect building; Campbell Bros., Contrs., Nashville.

Tex., San Antonio—Christian Church will erect building on S. Prosa and Dunning Aves.; Adams & Adams, Archts.; Wm. Orth, Contr.

Tex., San Marcos—First Baptist Church will erect building at Hutchinson and Gaudalope Sts.; cost \$100,000; brick; reinforcing and structural steel; Moore Construction Co., Contr., Brownwood and San Marcos. (See Machinery Wanted—Building Material; Brick; Steel.)

Va., Martinsville—Methodist Episcopal Church will erect \$57,000 building; Eubank & Caldwell, Inc., Archts.—Contrs., 6 Kirk Ave., S. W., Roanoke.

Va., Martinsville—Methodist Episcopal

Church, Dr. Chas. T. Womack, Chrmn., will erect building; Eubank & Caldwell, Archts.—Contrs., Roanoke.

City and County.

La., Shreveport—Fire Station—City, J. C. Flanagan, Sec.-Treas., will erect central fire station; cost \$107,305; 2 stories; 85-ft. frontage; W. H. Werner, Contr.

Mo., Cape Girardeau—Home—Cape Girardeau County Court, Blucher Sperling, Clk., will erect home at county farm; cost \$25,000; 78x172 ft.; 1 story; brick and hollow tile; asphalt slate roof; pine and concrete floors; heating, \$2300; lighting, \$1200; A. F. Lindsay, Archt., Sikeston; Garhardt Construction Co., Contr., Cape Girardeau. (Lately noted.)

Courthouses.

Mo., Union—Franklin County, F. A. Ruger, Clk., will erect courthouse and jail building; cost \$150,000; 80x50 ft.; reinforced concrete, steel, stone and brick; Barber asphalt roof; composition, concrete, terrazzo, marble and wood block floors; hollow fireproof and interior tile; metal lath; metal doors; vaults; wire glass; ventilators; heating, \$7000; electric lights; Bonsack & Pearce, Archts., Laclede Gas & Light Bldg., St. Louis; Geo. H. Gassman, Contr., Charleston. Address contractor, Box 610, Arkansas City, Kan.

Dwellings.

D. C., Washington—R. J. Flood will erect dwelling, 1248 Monroe St., N. E.; cost \$10,000; 2 stories; brick and frame; Edwin Jacobsen, Contr.

D. C., Washington—C. H. Galliher will erect 4 dwellings, 1410-16 Ingraham St., N. W.; cost \$45,000; 2 stories; brick; J. F. Mills, Contr.

D. C., Washington—W. A. Boss will erect 10 two-story brick dwellings, 2301-19 3rd St., N. E.; cost \$40,000; H. W. Feby, Contr.

Fla., Tampa—M. G. Gibbons will erect residence, 823 S. Delaware Ave., Hyde Park; cost \$10,000; frame; J. S. Brandbury, Contr.

Fla., Tampa—W. B. Harvard will erect residence at 716 S. Edison Ave., Hyde Park; cost \$11,000; brick; concrete foundation; F. J. James, Archt.; F. H. Foxworth, Contr.

La., New Orleans—Fred Gausage will erect 3 double two-story dwellings, St. Ann and Alexander Sts.; cost \$30,000; Joseph J. Lagarde, Contr.

La., New Orleans—Mrs. H. S. Herring will erect 2 duplex dwellings, Plum and Short Sts.; cost \$15,687; Edwin L. Markel, Contr.

La., New Orleans—Union Homestead Assn., will erect \$9000 raised bungalow, Nashville Ave. and Arabella St.; also duplex dwelling, Johnson and Galvez Sts.; cost \$8927; E. L. Markel, Contr.

La., New Orleans—St. Denis J. DeBlanc will erect raised bungalow, Audubon and Hickory Sts.; cost \$12,300; Thos. H. Brockman, Contr.

Md., Baltimore—Harry W. Johnson, 303 E. Lexington St., will erect 4 two-story stores and dwellings, Windsor Mill Rd. and Chelsea Ave.; 20x60 ft.; slag roofs; steam heat; cost \$15,000; N. R. Randle, Archt., 907 Light St.; Harry W. Johnson Co., Contr.

Md., Baltimore—George W. Schoenhals, 101 S. Linwood Ave., will erect 3 two-story brick dwellings, 1532-36 Poplar Grove St.; 16x55 ft.; cost \$12,000; slag roofs; hot water heat; Joseph F. Hirt, Archt., 820 N. Luzerne St.; Geo. W. Schoenhals & Co., Contrs. (Lately noted.)

Md., Baltimore—Dr. J. Staige Davis, Sev-

ern Apts., will erect residence on Wendover Rd., Guilford; 61x34 ft.; 2½ stories; stone and weatherboarding; 15 rooms and 5 baths; Parker, Thomas & Rice, Archts., Union Trust Bldg.; R. B. Mason, Contr., 308 W. Madison St. (Lately noted.)

N. C., Charlotte—J. L. Snyder will erect Colonial residence on Queens Rd., Myers Park; 3 stories; 15 rooms and baths; cost \$50,000; Earle S. Draper, landscape Archt.; E. H. Clements & Co., Contrs.

N. C., Lexington—Dr. C. R. Sharpe will erect 11-room residence at 2nd and State Sts.; brick veneer; hollow tile; Spanish tile roof; hardwood floors; Folquar system of heat; Jess Tucey, Contr. (Lately noted.)

S. C., Florence—Mrs. G. H. Hall will erect two 6-room frame dwellings on Harlee St.; Dargan-Harlee, Contr.

S. C., Greenville—F. M. Burnett will erect 5 dwellings between Green Ave. and Anderson St.; 1 story; cost \$10,000; Minter Homes Co., Contr.

Tenn., Etowah—Supt. M. Sargeant, L. & N. R.R. Co., will erect 2-story residence in Todd's park; cost about \$10,000; cement brick; marble trim; 10 rooms; contract let.

Tenn., Memphis—S. H. Trezevant, S. H. Trezevant & Co., will erect 3 brick bungalows, Mallory and Gage Aves., South Memphis; H. Dlugach, Contr.

Tex., San Antonio—E. A. Basse will erect residence at 531 W. Woodlawn Ave.; cost about \$10,000; tile roof; Phelps & DeWees, Archts.; L. LaBroche, Contr.

Tex., San Antonio—Mrs. Jennie Rue will erect residence on River Ave.; cost about \$10,000; Adams & Adams, Archts.; F. A. Wilson, Contr.

Va., Richmond—J. Hunter Frischkorn will erect \$13,000 residence on Monument Ave. west of Belmont Ave.; Colonial architecture; brick and stucco; tile roof; concrete and hardwood floors; hollow fireproof and interior tile; metal doors; G. Herbert French, Archt., 513 Times Dispatch Bldg.; A. F. Perrin, Contr. (Lately noted.)

Va., Richmond—C. F. Gauer will erect \$50,000 residence; brick and stucco; tile roof; concrete and hardwood floors; hollow fireproof and interior tile; metal doors; G. Herbert French, Archt., 513 Times Dispatch Bldg.; A. F. Perrin, Contr.

Hospitals, Sanitariums, Etc.

Mo., Springfield—St. Louis & San Francisco Railroad Co. will erect hospital; cost \$550,000; reinforced concrete, brick and steel; fireproof; tar and gravel roof; hardwood, concrete and terrazzo floors; hollow fireproof and interior tile; ornamental terra cotta; metal doors; vaults; wire glass; ventilators; steel sash and trim; Wm. MacDonald Construction Co., Contr., 428 Odd Fellows Bldg., St. Louis.

N. C., Asheville—Asheville Normal School will remodel building for hospital; cost \$10,000; diet kitchen; accommodate 25; C. C. McPherson, Contr.

Okl., Muskogee—City will erect municipal hospital; cost \$119,850; 47x118 ft.; 5 stories; fireproof; brick and stone; concrete, tile and terrazzo floors; hollow fireproof and interior tile; metal doors; vaults; wire glass; ventilators; steel sash and trim; vacuum steam heat; passenger elevator; Chas. P. Nieder, Archt., Oklahoma City; Manhattan Construction Co., Contr., Muskogee. (Lately noted.)

S. C., Columbia—South Carolina Baptist Hospital, Dr. W. M. Whiteside, Supt., will \$50,000 addition; maternity, baby, dietary and X-ray departments; J. B. Urquhart, Contr.

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Tenn., Nashville—Board of Hospital Comms. will erect nurses' home on Hermitage Ave.; brick; 3 stories and basement; accommodate 45; class rooms, diet kitchen, etc.; Asmus & Clark, Archts., 634 Stahlman Bldg.; J. B. Regan, Contr., at \$36,625.

Hotels.

Ala., Marion—D. L. King, (W. H. Mason, Agt.), will build King Hotel; cost \$50,000; 2 stories and basement; running water; steam heat; 30 guest rooms; J. A. Wood, Contr.

Okla., Holdenville—C. W. Miller will erect 30-room hotel. (See Stores.)

W. Va., Welch—Bright Hotel Co., will erect hotel; cost \$40,000; 4 stories and basement; 30x90 ft.; E. Wolford, Archt., McDowell Co., Bank Bldg.; Grover Johnson, Contr.

Miscellaneous.

Ala., Birmingham—Recreation—Booker T. Washington Athletic Assn., Thos. A. Snow, Prest., will erect recreation building; cost \$15,000; swimming pool, 60x100 ft., bath houses, band stand, etc.; concrete and frame; composition roof; concrete and wood floors; wire glass; electric lights; W. C. Snow, Archt.-Contr., 505-6 Jefferson County Bank Bldg.

Fla., Leesburg—Clubhouse—Woman's Club, Mrs. E. H. Mote, Prest., will erect building; cost \$17,000; 50x55 ft.; 2 stories; Spanish design; concrete; asbestos roof; hardwood floors; stoves; electric lights; Murray S. King, Archt., Orlando; Chapin & Pittman, Contrs., Winter Garden.

Fla., St. Cloud—Library—Veteran Memorial Library Bldg. Comm. will erect building; 125 ft. frontage; P. E. Morgan, Contr.

Mo., Sedalia—Pavilion—Missouri State Fair Assn. will erect swine pavilion; 280x280 ft.; brick and steel; pitch and gravel roof; concrete floors; T. W. Bast, Archt.; Dean & Hancock, contrs. at \$122,101. (Lately noted.)

Schools.

Ala., Anniston—City Board of Education will erect grade school; cost \$35,000; 6 classrooms and assembly room; brick and concrete; wood floors; steam heat; Lockwood, Poundstone & Billie, Archts., 203 Commercial Natl. Bank Bldg.; Calhoun Constr. Co., Contr.; Klepsig Heating & Plumbing Co., heating; Cater Plumbing Co., plumbing; Jno. Terrell, electric wiring.

Ala., Uniontown—Board of Education, P. W. Williams, Supt., will erect high school; 14 class rooms, club rooms, gymnasium, 60x80 ft., chapel, library, shower bath; install moving picture machine; Frank Lockwood, Archt., Montgomery; E. G. Norris & Son, Contrs., Tuscaloosa.

Ark., Fort Smith—Board of Education, C. J. Tidwell, Secy., will erect Parker School; 14 rooms and auditorium; Chas. W. Dawson, Archt., 201 Merchants Natl. Bank Bldg.; Jas. Reddick, contr., at \$74,677.

Fla., Gary—Hillsborough County Board of Public Instruction, J. E. Knight, Secy., Tampa, will erect addition to school; cost \$12,500; two wings 30x40 ft.; 2 stories and basement; brick; wood floors; composition roof; terra cotta trim; electric lights; M. Leo Elliott, Archt., Tampa; R. H. Hill, Contr., Gary.

Fla., Jacksonville—Duval County Board of Public Instruction, Dr. Fons A. Hathaway, Supt., will erect addition to Duval High School; Greeley & Benjamin, Archts.; O. P. Woodcock, contr. at \$34,850; Hooker & Lightbody, plumbing and heating, \$3443.

Ky., Louisville—Board of Education, Samuel D. Jones, Bus. Director, 8th and

Chestnut Sts., will erect addition and alter Henry Clay School; Edgar A. Rassiner, Archt.; Geo. H. Rommel Co., contr. at \$32,500 for addition; P. H. Meyer & Co., plumbing and sewerage, \$690; Marine Electric Co., electric work, telephone, clock and program system, \$1994; Lewis Mfg. & Supply Co., additions to heating and ventilating, \$1553.

La., Baton Rouge—Louisiana State University and Greater Agricultural College will erect hog barn; 123x36 ft.; 2 stories; concrete and frame; A. C. Stewart, contr. at \$7045. (Lately noted.)

La., New Orleans—Tulane University, Dr. A. B. Dinwiddie, Prest., will erect proposed science building on St. Charles Ave.; cost \$125,000; botany, zoology, pharmacology and physiological chemistry departments; 100x150 ft.; 4 stories; Mose Goldstein, Archt.; Doullut & Williams, Contrs.

Miss., Como—Como Separate School Dist. Trustees, Dr. A. P. Alexander, Prest., will erect building; Raymond B. Spencer, Archt., Goodwyn Institute Bldg., Memphis, Tenn.; J. C. Jones & Co., Randolph Bldg., Memphis, contr. at \$19,506; Tri-State Plumbing & Heating Co., Memphis, plumbing and heating, \$3875. (Lately noted at Tenn., Como.)

Mo., Cape Girardeau—Southeast Missouri State Teachers' College Board of Regents will erect training school; cost \$125,000; Greek design; 3 stories; fireproof; stone; hollow fireproof and interior tile; hardwood and concrete floors; rolling partitions; ornamental terra cotta; 27 classrooms, auditorium to seat 400, 3 laboratories, domestic science department, gymnasium; Study & Farrar, Archts., 1363 Arcade Bldg., St. Louis; Gerhardt Construction Co., Contr., Cape Girardeau; Soderman Heating Co., St. Louis, heating.

Mo., Columbia—University of Missouri, E. E. Brown, Bus. Mgr., will erect following buildings: Agricultural building; Collins Bros., Kansas City, contr. at \$142,428; St. Louis Engineering & Heating Co., heating, \$7239; Greer-Penn Electric Co., Mexico, Mo., wiring, \$3950; women's building; Murch Bros., St. Louis, contr. at \$106,000; F. E. Newberry Heating Co., Kansas City, heating, \$6700; J. K. Fyfe, electric wiring, \$1881; chemistry building; Collins Bros., Kansas City, contr. at \$78,366; Elchert Heating Co., St. Louis, heating, \$6850; Greer-Penn Electric Co., Mexico, Mo., wiring; W. G. Cornell Co., St. Louis, plumbing for all structures at \$35,000; all buildings stone; Jas. P. Jamieson and Geo. Spearl, Archts., Arcade Bldg., St. Louis. (Lately noted.)

Mo., Kirksville—Northeast State Teachers College, Dr. Jno. R. Kirk, Prest., will erect demonstration school building and auditorium-gymnasium; S. E. Shultz, Chillicothe, contr. at \$216,000; Jno. Gilmore Plumbing Co., St. Louis, heating, plumbing and ventilation, \$40,200; Crescent Electric Co., Kansas City, electrical work, \$7000. (Lately noted.)

Fla., Daytona—Daytona Normal and Industrial School will erect dormitory; cost \$60,000; 42x138 ft.; 3 stories; brick walls; wood joists; built-up roof; interior tile; wood floors; steam heat; city lights; Fuquay & Green, Contrs., Daytona Beach.

N. C., Raleigh—North Carolina College of Agriculture and Engineering, Dr. W. C. Riddick, Prest., will erect addition to dining room; 57.6x146.10 ft.; brick; tile backing; steel floor tile; slate roof; interior tile; metal ceilings; hardwood, concrete, cork and granolithic floors; ventilators; heating from central plant; G. Murray Nelson and Thos. W. Cooper, Archts.; W. B. Barrow, Raleigh, contr., at \$58,460.

N. C., Rock Ridge—Board of School Trus-

tees will erect building; 2 stories; 16 rooms with auditorium; brick; hollow and interior tile; slag roof; wood and concrete floors; wire glass; steel sash and trim; metal doors; vaults and ventilators; steam heat and plumbing, \$8800; lighting, \$3000; Chas. C. Wilson, Archt., Wilson, N. C., and Columbia, S. C.; Cunningham & Melson, Contrs., Box 859, Newport News, Va.

S. C., Bamberg—Carlisle Fitting School, H. C. Folk, Chrmn., Bldg. Comm., will erect dormitory to replace H. J. Bradham Hall; cost \$25,600; 3 stories; fireproof; brick; 53 rooms with hot and cold water; steam heat; electric lights; accommodate 120 cadets; LaFaye & LaFaye, Archts.-Engrs., 100 Loan & Exchange Bank Bldg., Columbia; Haynesworth & Lawton, Contrs., Florence.

Tenn., Algood—Putnam County Board of Education, Cookeville, will erect school; cost \$27,000; 9 rooms and auditorium; brick; tar and gravel roof; hardwood floors; steel sash and trim; steam heat; Manley & Young, Archts., Knoxville; Jno. B. Davis, Contr., Algood.

Tex., Amarillo—School Board will erect high school; cost \$150,000; 4-ply built-up roof; wood floors; heating, \$20,000; Parker & Rittenberry, Archts., Blackburn; Fred Brane Constr. Co., Contr. (Lately noted.)

Tex., Stamford—Board of Education, N. S. Holland, Supt., will erect high school; cost \$75,000; 100x80 ft.; reinforced concrete and brick; tar and gravel roof; hardwood floors; hollow fireproof tile; wire glass; interior tile; ventilators; steam heat; David S. Castle, Archt., Abilene; J. C. Joplin Construction Co., Contr., Wichita Falls; S. P. Osborn, Fort Worth, heating and plumbing; Star Electric Co., Abilene, electric work.

Stores.

D. C., Washington—H. G. Taylor will erect 3 one-story brick stores, 823-27 Kennedy St., N. C.; J. Zarin, Contr.

Fla., West Palm Beach—Fenwick Walkley will erect business building and garage at Poinsettia and Fern Sts.; cost \$12,000; 120x58 and 75x21 ft.; A. C. Nelson, Contr.

Md., Baltimore—Allen E. Barton will erect building on Wabash Ave., north of Kate Ave.; cost \$10,000; 36.3x36.6 ft.; 1 story; concrete; Spencer Constr. Co., Contr., Garrett Bldg.

Md., Baltimore—Elmer E. Wilmer, 4019 Falls Rd., will erect two 2-story brick buildings, 4003 Falls Rd.; 90.9x60 ft. and 69x40 ft.; cost \$10,000; slag roofs; steam heat; W. E. Harn Co., Inc., Contr., 2314 Oak St.

N. C., Wilmington—Samuel Behrends will erect building on N. Front St. to replace structure previously noted burned; 3 stories; fireproof; steel, concrete and brick; metal window frames; elevator; Jas. B. Lynch, Archt.; R. H. Brady, Contr.

Okla., Holdenville—C. W. Miller will erect 4 brick store buildings and 30-room hotel; contract let.

Tenn., Memphis—Chas. J. Bauch, Leo Goodman and I. D. Block will erect store at McLemore Ave. and Bellevue Blvd.; cost \$12,000; 68x65 ft.; brick; Memphis Carpenter & Cabinet Shop, Contr.

Tex., Childress—J. M. McClain and C. S. Ringley will erect building; cost \$15,000; 50x100 ft.; brick; tin roof; J. H. Craidy, Archt.; H. W. Thaten, Contr.

Tex., Houston—Bering-Cortez Co. will erect store at Preston Ave. near 9th St.; cost \$18,000; 1 story; hollow tile; Fred B. Chambers, Contr.

Tex., Houston—Commercial Investment Co. will erect store at McKinney Ave. and Caro-

line St.; cost \$41,500; 2 stories; brick and concrete; Fred B. Chambers, Contr.

Va., Richmond—Miller Rhoads, Inc., will erect addition at 5th and Grace Sts.; cost about \$1,500,000; 195x153 ft.; 5 stories, basement and sub-basement; 200,000 ft. floor space; fireproof; brick and terra cotta; Southern walnut fixtures and furnishings on main floor, French grey on second and quartered oak for basement and third floor; 6 electric elevators; cafe, refrigerating plant, kitchen, etc. on fifth floor; Starrett & van Vleck, Archts., 8 W. 4th St., New York; Jno. T. Wilson Co., Contr., Mutual Bldg., Richmond.

Theaters.

Tex., Houston—Interstate Amusement Co., Karl Hoblitzelle, Prest., Chicago, will erect Majestic Theater at Rusk Ave. and Travis St.; cost \$500,000; 159x125 ft.; fireproof; composition roof; marble, terrazzo and wood floors; steam heat; electric lights; hydraulic elevators; Jno. Ebersson, Archt., Chicago; American Construction Co., Contr., Houston. (Lately noted.)

Warehouses.

Fla., Tampa—E. M. Scott has contract to erect government warehouse on Seddon

Island; cost \$11,500; 1 story; 37x112 ft.; frame.

Ga., Tifton—Tifton Investment Co., R. W. Goodman, Secy., will erect tobacco warehouse; cost \$28,000; 100x300 ft.; brick; concrete floors; tin roof; S. N. Adams, Contr.

Mo., St. Louis—Kroger Grocery & Baking Co. will erect warehouse at Tiffany and Vista Aves.; cost \$150,000; 2 stories; 110,000 sq. ft. floor space; concrete; Emil H. Nieman, Archt.; Jas. H. Bright Bldg. & Constr. Co., Contr.

Tex., Houston—Ernest Gray will erect warehouse at Jackson St. and Franklin Ave.; cost \$40,000; 2 stories and basement; reinforced concrete; Don Hall, Contr.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Acid Egg.—Robey Tank Works, 2513 S. Robey St., Chicago, Ill.—To purchase acid egg, state price and full particulars.

Asphalt Mining Machine.—DeSoto County Comms., B. Vance, Auditor, Arcadia, Fla.—To correspond with mfrs. of portable asphalt mixing machine; large enough to construct short stretches of road.

Asphalt Paving Plant.—See Paving Equipment.

Boiler.—Duncan Machinery Co., Dempster Bldg., 721 N. Central St., Knoxville, Tenn.—Jobbers prices on 50 H. P. return tubular boiler; second-hand.

Boilers (Steam).—Farmer's Co-operative Creamery Co., Fairhope, Ala.—Prices on 10 and 12 H. P. steam boilers, both vertical and horizontal.

Boilers.—Iddins Machinery Co., Knoxville, Tenn.—Prices on second-hand 50 or 60 H. P. furnace boiler, also 100 H. P. boiler; interested in boilers from 50 to 150 H. P.

Brick.—Moore Construction Co., Brownwood, Tex.—Common and face brick. See Building Material.

Bridge Construction.—Town, O. W. Chat-ham, Jr., Clk., Elkin, N. C.—Bids until May 8 to build 200-ft. reinforced concrete bridge, across Elkin Creek; deck girder and arch types; plans, etc., on file or from Pegram and Reynolds, Const. Engrs., 501 Wachovia Bank Bldg., Winston-Salem, N. C.

Bridge Construction.—Freeburn Toll Bridge Co., Freeburn, Ky.—Invites bids on construction steel wagon bridge across Tug River between Freeburn and Delorme, W. Va.

Bridge Construction.—Palo Ponto County Comms., Court, E. L. Pitts, County Judge, Palo Ponto, Tex.—Bids opened Apr. 25 to grade and construct structures on 3. mi. Mingus Road from Strawn to Dist. line; 16,000 lbs. reinforcing steel; plans, etc., from G. W. Courter, County Engr.

Bridge Construction.—Lexington County Comms., Lexington, S. C.—Bids until May 5 to build reinforced concrete bridge on section Old State road; five 22-ft. bents; double 10 x 8 ft. and triple 10 x 7 ft. reinforced concrete box culverts; Federal Aid Project No. 146; cost \$12,500.

Bridge Construction.—Va. State Highway Comsn., Richmond, Va.—Bids until Apr. 25 to build 105-ft. bridge over North Fork of Clinch River, on road between Purchase and Lee County line; 50-ft. steel, truss and two 25-ft. reinforced concrete beam spans; plans, etc., from W. F. Hobart, 104 N. 7th St., Richmond, Va.

Bridge Construction.—State Highway Dept., Columbia, S. C.—Bids until May 3 to build creosoted timber trestle approach to

Wateree River bridge; cost \$8000. Richland County, Federal Aid Project No. 206.

Bridge Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Apr. 29 to build 20-ft. reinforced concrete slab span, 18-ft. roadway, 2 reinforced concrete abutments bridge over State road from Versailles to Linn Creek; Sta. 177 plus 17; Morgan County, State Aid Project No. 20,156; S. M. Rudder, Div. Engr., Iigenfritz Bldg., Sedalia, Mo.

Bridge Construction.—State Highway Dept., Columbia, S. C.—Bids until May 5 to build reinforced concrete bridge on Columbia-Charleston highway; four 22-ft. spans; two double 10x8-ft. and triple 10x8-ft. reinforced concrete box culverts; 1800 lin. ft. untreated piling; 47,270 lbs. steel reinforcement; Lexington County, Federal Aid Project No. 146; plans, etc., from State Highway Engr.

Bridge Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Apr. 28 to build 20-ft. reinforced concrete slab span, 180-ft. roadway, 2 mass concrete abutments on State road from Tuscumbia to Pulaski County line, Staton 101 plus 05; Miller County, State Aid Project No. 20,126; S. M. Rudder, Div. Engr., Iigenfritz Bldg., Sedalia, Mo.

Bridge Construction.—State Highway Dept., Jefferson City, Mo.—Bids until May 1 to build two 16-ft. reinforced concrete slab spans, 18-ft. roadway on State Highway from Doniphan to Poplar Bluff; two concrete abutments, concrete pier; Ripley County Federal Aid Project No. 91, Section B; M. S. Murray, Div. Engr., Sikeston, Mo.

Building Material.—Moore Construction Co., Brownwood, Tex.—Building material to include common and face brick, reinforcing and structural steel, lumber, plaster and lath.

Building Material.—Snider Bros., Inc., Keyser, W. Va., is estimating on school building at Westernport, Md., Chas. M. Anderson, Archt., 324 N. Charles St., Baltimore, and desires sub bids and estimates on following material: Roofing, sheet metal work; structural steel, ornamental steel, Indiana lime stone, granite tile floors, mill work, plastering, steel sash and doors, hardware and reinforcing concrete.

Building Material.—Snider Bros., Inc., Keyser, W. Va., is estimating on erection of hospital building at Hopemont, W. Va., and desires sub-bids and estimates at once on mill work, lumber, roofing, sheet metal work, plastering, hollow tile, fireproofing materials, hardware, etc.

Butter Mfr. Equipment.—W. G. Yeager, County Agt., Rowan Creamery Co., Salisbury, N. C.—Bids on \$3000 butter making equipment.

Canning Equipment.—W. T. Barker, Box 736, Canton, N. C.—Prices on canning equipment, also correspondence with manufacturers of canning equipment.

Canning Equipment.—T. M. Breazeale, Lenoir City, Tenn.—Prices on canning equipment.

Cold Storage Machinery.—Steadman Fruit Co., Beaumont, Tex.—Bids on cold storage machinery.

Compressor (Air).—Battley Machinery Co., Rome, Ga.—10x10 second-hand Ingersoll-Rand belt driven air compressor.

Concrete Mixer.—Thomas E. Hampton, Oswego Ave. and Old Pimlico Rd., Baltimore, Md.— $\frac{1}{4}$ yd. concrete mixer with gasoline loader.

Concrete Work.—Levee Board, Clarksdale, Miss.—Bids until May 2 to furnish material, equipment and labor and placing on front slope of levee in four different localities; approx. 140,000 sq. yds. plain concrete slab, 3-in. thick; for information apply to W. L. Head, Chief Engr.

Concrete Work.—Levee Board, Clarksdale, Miss.—Bids until May 2 to furnish material, equipment and labor, placing on front slopes of the levee in four different localities; approximately 140,000 sq. yds. of plain concrete slab, 3-in. thick; W. L. Head, Chief Engr.

Costumes.—Moore Feature Film Co., 619 W. Glenwood Ave., Knoxville, Tenn.—Prices on costumes for motion picture production.

Culverts.—Mickler & McLeod, Tampa, Fla.—Culverts.

Flooring (Tile).—Snider Bros., Inc., Keyser, W. Va.—Tile floors. (See Building Material.)

Creamery Equipment.—Alamance Co-Operative Creamery Co., E. L. Henderson, Secy., Burlington, N. C.—Bids until April 24 for equipment for mfr. butter, ice cream, condensed milk.

Drainage, etc.—Birmingham Drainage Dist. Supvgs., G. D. Beardsley, Secy., Birmingham, Ala.—Invite bids on construction of concrete culverts, sluice gates and excavation work for drainage dist.; plans with Clark E. Jacoby Engineering Co., Engr., Shikert Bldg., Kansas City, Mo.

Drainage.—Little Medicine Drainage Dist. No. 1 of Grundy County, W. M. Morris, Clerk, Trenton, Mo.—Bids until May 1 to construct drainage system; information on application.

Dredging.—Dept. of Public Improvements, Howard Bryant, Acting Prest. Board of Awards, Baltimore, Md.—Bids opened April 26 for dredging in harbor; Richard Gwinn, Register, City Hall; Bancroft Hill, Harbor, Engr.

Dumb Walter (Electric).—Trenury Dept.,

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Supvg. Archt.'s Office, Washington, D. C.—Bids until May 9 to install complete an electric dumb-waiter in U. S. Post Office at New Britain, Conn.; information on application.

Electric Light Plant Equipment.—City of Evergreen, Ala.—Invite bids on light plant equipment including: 2 direct connected generator sets, 1 set 100 K. V. A. or 125 K. V. A. 2300 volts 3 phase generator with suitable engine for unfloer or 4 valve pipe complete with belted excitor other set 75 K. V. A. 2300 volt 3 phase generator and engine of similar type as set No. 1 complete with excitor; 150 H. P. boiler, 150 lbs. working pressure complete with 60 ft. stack; 4 panel switchboard with meters and circuit breakers for above sets, 1 street lighting panel suitable feeder circuits and meters to handle light and power circuits; feed water heater, open type to raise feed water from 70 degrees F to 210 degrees F. when either engine is running under 75 lb. load; piping, valves, conduits wire, etc., to connect generators and switchboard; 2 boiler feed pumps capable to supply hot or cold water for both boilers with either pump; further information apply to W. W. Hill, Conslt. Engr., Auburn, Ala.

Electric Equipment.—City, R. B. Turner, Clk., Vanceboro, N. C.—Prices on electric equipment, including wire, poles, meters, etc.

Electric Fixtures.—Howard Bryant, Acting Prest. Board of Awards, Baltimore, Md.—Bids until April 26 to furnish and install electric fixtures in schools Nos. 8, 9, 13, 19, 40, 52, 75, 79, 93, 95, 100, 103, 107, 108, 109, 110 and 116; Richard Gwinn, Register, City Hall; H. G. Perring, Chf. Engr.

Electric Wiring.—Snider Bros., Inc., Keyser, W. Va., is estimating on erection of hospital at Hopemont, W. Va., and desires sub-bids at once on electric wiring.

Engine.—Battley Machinery Co., Rome, Ga.—15 H. P. double drum, double cylinder hoist-engine.

Felt (Flexible Animal).—Geo. H. Skermer, Box 1491, Tampa, Fla.—To correspond with mfrs. of low grade flexible animal felt, ranging $\frac{1}{4}$ to $\frac{1}{2}$ -in. in thickness; with samples.

Fireproofing.—Snider Bros., Inc., Keyser, W. Va.—Fireproofing. (See Building Material.)

Fly-Wheel.—Duncan Machinery Co., Dempster Bldg., 721 N. Central St., Knoxville, Tenn.—Second-hand 52-in. fly-wheel by 12-in. face, or could use 50 or 54-in. in diameter, if we could not get the 52 in.; 12 to 14-in. base, 3 $\frac{1}{2}$ -in. bore.

Fountains (Ornamental and Drinking).—W. N. Willis, Engr., Cleveland Bldg., Spartanburg, S. C.—Prices and catalogs on ornamental and drinking fountains and accessories.

Gas Pipe.—Village of Mer Rouge, La., O. L. Gilson, Mayor.—Prices on 8 mi. of 4" gas line pipe also 2" pipe.

Generators.—A. J. Merrill, Box 1205, Atlanta, Ga.—Prices on 220 volt, D. C. generator, speed 720, 20 K. W., or motor generator set from 15 to 25 K. W. with 220 volt, 3 phase, 60 cycle, motor attached to 220 volt generator; one 75 K. W. 220 volt, D. C. generator, 3 wire, 600 r. p. m., new or second-hand.

Generator Equipment.—Standard Electric Machinery Co., 7 E. Hill St., Baltimore, Md.—300 to 500 K. W., 3 phase, 60 cycle, 600 volt generator equipment with exciter and switchboard; slow speed machine suitable for water wheel connection preferred, will consider high speed machine; state price, approx. weight, full specifications and history, f. o. b. cars.

Greenhouses.—Walter Reed Hospital, Greenhouse Committee, Washington, D. C.—Invite bids for substructure of greenhouse range at Walter Reed Hospital; apply to Utilities Officer for further information.

Hardware.—Snider Bros., Inc., Keyser, W. Va.—Hardware. (See Building Material.)

Heating Plant.—Snider Bros., Inc., Keyser, W. Va.—Is estimating on erection of hospital at Hopemont, W. Va., and desires sub-bid at once on heating plant.

Heating and Power Plant.—Texas Presbyterian College, Jno. B. Cavitt, Prest., Board of Trustees, Milford, Tex.—Prices on heating and power plant.

Hollow Tile.—Snider Bros., Inc., Keyser, W. Va.—Hollow Tile. (See Building Material.)

Ice Cream Equipment.—E. L. Henderson, Secy. Alamance Co-operative Creamery, Burlington, N. C.—Bids opened Apr. 24 for equipment to mfr. ice cream.

Insulated Wire Machinery.—T. J. Seward Co., 17 W. 24th St., New York.—Invite bids on insulated wire mchy.

Knitting Mills.—Wm. Crawford Smith, Box 1128, Wilmington, N. C.—Prices and complete data on establishing knitting mills.

Lathe (Engine).—Tom Huston Mfg. Co., Columbus, Ga.—24-in. heavy duty engine lathe, state condition and price.

Lathe (Rolling Mill).—Gerson Rolling Mill Co., 3900-10th Ave., Birmingham, Ala.—Large rolling mill lathe for 16-in. rolls.

Lighting (Furniture).—Treasure Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until May 17 to install complete furniture lighting, etc. in U. S. Post Office and Court House at Birmingham, Ala.; plans on file or with Custodian at Birmingham.

Linoleum, etc.—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until June 2 for mastic and linoleum floor covering for U. S. Post Office, Court House and Custom House at Honolulu, T. H.; plans in file of with Supvg. Supt., Room 403, U. S. Post Office Building, San Francisco, Cal.

Lubricants.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until Apr. 27 to furnish 1200 lbs. axle grease; 14,500 lbs. transmission grease; 10,000 lbs. cup grease and 200 gals. tractor oil; delivery to various Marine Corps posts; information on application; Sch. 315.

Lumber.—Snider Bros., Inc., Keyser, W. Va.—Lumber. (See Building Material.)

Lumber Manufacturing Equipment.—O. E. McKeehan, Malanbang, Mindanao, S. Philippine Islands.—To purchase 100 to 200 H. P. horizontal return tubular steam boilers; 50 to 100 H. P. steam engines; saw mills and woodworking mchy.; second-hand equipment.

Mantles.—Ley & Farley, Box 86, Danville, Va.—To correspond with mfrs. of fire place mantles.

Magnetic Separator.—M. B. Parker, Chattanooga, Tenn.—To purchase magnetic separator, suitable for separating iron from slag.

Match Making Equipment.—Wm. Crawford Smith, Box 1128, Wilmington, N. C.—Data and prices on best facilities for making matches.

Mechanical Equipment, etc.—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until May 8 to construct addition to boiler house; separate proposals for mechanical equipment for boiler house, including fire lines, steam and water connections to laundry mchy. and transformers sub-station at U. S. Quarantine Station, Hoffman Island, New York; plans with Archt.

with Chf. Engr., Room 731, Custom House Bldg., New York.

Metal Bunks.—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until May 8 to install metal bunks in new dormitory buildings at U. S. Quarantine Station, Hoffman Island, New York; plans on file or with Chf. Engr., Room 731, Custom House Bldg., New York.

Mill Work.—Snider Bros., Inc., Keyser, W. Va.—Mill work. (See Building Material.)

Mill Work.—Snider Bros., Inc., Keyser, W. Va.—Mill work. (See Building Material.)

Miscellaneous Furniture.—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until May 2 to supply furniture under annual contract for equipment of Federal Bldgs. for year ending June 30, 1923 as follows: chairs, desks, costumers, umbrella stands, weight clocks, metal lockers, metal racks and tables, linoleum, water coolers, cuspidors, door mats, special filing cases, etc.; information on application.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until Apr. 2 to furnish special bronze; brass hinges; hose; solid rubber tires; rubber seals; flush tank rubber balls; manila rope; deck brushes; dauber and duster brushes; launch lights; twine, flax packing; fire extinguisher liquid; dry red lead; cylinder and sperm oil and spar varnish. Blank forms and information (Circular 2290) on application to Panama Canal; Asst. Purchasing Agts., at Fort Mason, San Francisco, Cal.

Mold (Printers).—C. A. Sumner, Propr., The Journal, Elkland, Pa.—To purchase printers mold.

Motion Picture Equipment.—Moore Feature Film Co., 619 W. Glenwood Ave., Knoxville, Tenn.—Motion picture equipment for producing photo plays.

Motors.—A. H. Johnson, City Purchasing Agt., El Paso, Tex.—Bids opened April 25 for two 100 H. P. vertical induction motors and two H. P. horizontal induction motors.

Moulds (Metal, Ice Cream).—V. B. Morgan, Mullins, S. C.—To correspond with mfrs. of metal moulds for moulding ice cream.

Oil (Sperm).—Navy Dept., Bureau of Supplies and Accounts, Washington, D. C.—Bids until April 25 to deliver sperm oil to Navy Yard, Charleston, S. C.; plans on file or with Supply Officer, Charleston.

Painting.—Snider Bros., Inc., Keyser, W. Va. is estimating on erection of school building at Westernport, Md., and desires sub bids on painting.

Park Equipment.—W. N. Willis, Engr., Cleveland Bldg., Spartanburg, S. C.—Prices and catalogs on park equipment.

Paving Equipment.—Uvalde County, L. W. Scheide Mantel, County Engr., Sabinal, Tex.—Bids until May 15 on paving equipment, including asphalt paving plant, road oiling equipment, rollers, graders, scrapers, scarifiers, drags, tractors.

Paving Materials.—Uvalde County, L. W. Scheide Mantel, County Engr., Sabinal, Tex.—Bids until May 15 on road oil.

Paving Materials.—Mickler & McLeod, Tampa, Fla.—Paving materials, including asphalt and road binders.

Paving.—City, Dept. Public Works, Allen J. Saville, Director, Richmond, Va.—Bids until May 8 to pave certain streets with following materials: sheet asphalt, asphaltic concrete, bitulithic, willite process, vitrified brick, durax block and granite spall; plans, etc., on file.

Paving.—City, G. A. Kelley, Mayor, Lufkin, Tex.—Bids until May 9 to improve fol-

lowing streets: Bremond and Culverhouse Sts. and Frank Ave.; macadam, bitulithic pavement, etc.; plans, etc., from City Engr.

Paving.—City, Paul J. B. Murphy, Mgr., Radford, Va.—Bids until May 9 to construct 50,000 sq. yds. sheet asphalt, asphaltic concrete, cement concrete, bitulithic, and vitrified brick pavement; plans, etc., on file.

Paving.—Board of Awards, R. Keith Compton, Chrmn. Paving Comsn., Baltimore, Md.—Bids until May 3 to grade, curb and pave streets listed in Contract No. 214-OCNA, 5610 sq. yds. cement concrete; Contract No. 215 NA, 8400 sq. yds. sheet asphalt; Contract No. 216-OC, 5095 sq. yds. granite block; Contract No. 217-OC, 11,280 sq. yds. sheet, vitrified and granite blocks; plans, etc., on file.

Paving.—City, Mat. Miser, Commrs. Streets and Sewers, Huntington, W. Va.—Bids until Apr. 28 to grade, curb and pave following streets: 3rd, 13th and 22th Sts., and 11th, Monroe and 12th Aves., and South Boulevard; plans, etc. from A. B. Maupin, City Engr.

Paving.—Hill County Commrs. Court, Marion Clyette, Auditor, Hillsboro, Tex.—Bids until Apr. 29 to construct 87,218 sq. yds. cold rolled limestone rock asphalt pavement, and 104,662 lin. ft. concrete curbing on Colorado-to-Gulf Highway, Road Dist. No. 2; plans, etc., from A. A. Walker, Res. Engr., Itasca, Tex., and at State Highway Dept., Austin, Tex.

Paving.—City, C. R. Winks, Trenton, Mo.—Bids opened Apr. 19 to pave following streets: Custer, reinforced concrete; Halliburton, bituminous macadam; Grant, reinforced concrete; 13th, bituminous macadam; W. 8th, brick; curbs and gutters.

Paving.—Town, K. W. Kite, Clk., Huntersville, N. C.—Bids until Apr. 28 to construct sidewalks, curbs and gutters; 1000 cu. yds. grading; 2000 sq. yds. plain cement concrete sidewalks; plans, etc. on file, or from Mees & Mees, Conslt. Engrs. Charlotte, N. C.

Paving.—Town, R. C. Kennedy, Mayor, Bessemer City, N. C.—Bids until Apr. 28 to pave several streets; 27,700 sq. yds. plain concrete, reinforced concrete or sheet asphalt, etc.; on file or from Mees & Mees, Conslt. Engrs. Charlotte, N. C.

Paving.—Cameron County, Oscar C. Dancy, County Judge, Brownsville, Tex.—Bids opened Apr. 26 to pave section Highway No. 12 in Brownsville; clear, grub and grade; 3060 sq. yds. concrete; W. A. Washington, County Engr.

Paving.—City, H. C. Sistrunk, Clk., Ocala, Fla.—Bids until May 2 to construct sidewalks and curbs on Main and Sanchez Sts.; plans, etc. on file.

Paving.—City, Commrs., D. B. Robertson, Prest., Tuscaloosa, Ala.—Bids until Apr. 25 to construct 30,000 squares Portland cement concrete paving; 25,000 lin. ft. 4-in. and 850 lin. ft. 6-in. integral concrete curb; 300 sq. yds. concrete sidewalks; 50 cu. yds. concrete incar tracks; plans, etc., from W. H. Nicol, City Engr.

Paving.—Town, C. H. Hamilton, Mayor, Davidson, N. C.—Bids until Apr. 28 to pave several street; 2500 cu. yds. grading; 7000 sq. yds. plain cement concrete, reinforced concrete, sheet asphalt, bitulithic or asphaltic concrete pavement on 5-in. portland cement concrete base; 10,500 lin. ft. combination concrete curbs and gutters, storm drains, etc.; plans, etc. from W. H. Thompson, Clk., or Mees & Mees, Conslt. Engrs., Charlotte N. C.

Paving.—Town, O. E. Chatham, Jr., Clk., Elkin, N. C.—Bids until May 8 to grade and construct pavement on East and West Main,

Church and Market Sts., and Gwyn Ave.; concrete, asphaltic concrete, sheet asphalt and warrenite bitulithic; 40,000 sq. yds.; plans, etc. on file or from Pegram and Reynolds, Conslt. Engrs., 501 Wachovia Bank Bldg., Winston-Salem, N. C.

Paving.—City Comsn., R. B. Taylor, Commr., Mobile, Ala.—Bids opened April 24 to construct approx. 700 sq.; yds. of one course, 4-in. reinforced or plain concrete pavement; plans with Wright Smith, City Engr.

Pipe (Reinforced Concrete).—State Highway Dept., Columbia, S. C.—Bids opened April 22 to furnish and deliver the following reinforced concrete culvert pipe for use in road construction work during months of May, June, July, 1922; 282.5 lin. ft. of 15, 18 and 24-in. pipe for Charleston County, Project 81-B; 1152.5 lin. ft. of 15, 18, 24, 30 and 36-in. pipe, Project No. 144; 227.5 lin. ft. of 15, 18 and 24-in. pipe for Saluda County, Project 141; 760 lin. ft. of 18 24 and 36-in. pipe for Dorchester County, Project 160; 351 lin. ft. of 15, 18, 24, 30 and 36-in. pipe for Newberry County, Project 148; 316 lin. ft. of 15, 18, 24 and 36-in. pipe for Sumter County, Project 163; 1317.5 lin. ft. of 15, 18, 24 and 36-in. pipe for Bamberg County, Project 166; 910 lin. ft. of 15 18, 24 and 36-in. pipe for Orangeburg County, road from Branchville to Dorange; 1600 lin. ft. of 15, 18, 24 and 36-in. pipe Marion County Nichols Road; 556 ft. of 15, 18, 24 and 36-in. pipe Jasper County, Road from Ridgeland to Gillisonville; 1610 lin. ft. of 15, 18, 24 and 36-in. pipe, Florence County, road from Lake City to Effingham; 1660 lin. ft. of 18, 24 and 36-in. pipe Horry County, Conway Georgetown Road; 2060 lin. ft. of 15, 18, 24 and 36-in. pipe, Williamsburg County, end of Project 80 to Santee Bridge; information on application.

Plastering.—Snider Bros., Inc., Keyser, W. Va.—Plastering. (See Building Material.)

Plumbing and Heating System.—James N. Hess, Secy., Board of Education Clarksburg, W. Va.—Bids until April 27 for construction, installation and completion of the heating and plumbing apparatus; Holmboe & Pogue, Archts. information on application.

Printing, etc.—C. H. Cheshire, Secy., Printing Commrs., Frankfort, Ky.—Bids until May 5 for reprinting and rebinding 100 copies each of volumes 105, 115, 116, 117, 123 Kentucky reports; further information on application.

Printing Equipment.—B. Franklin Waite, Editor, The Chronicle, Morris, N. Y.—To purchase printing equipment.

Pumps (Centrifugal Booster).—A. H. Johnson, City Purchasing Agr., El Paso, Tex.—Bids opened April 25 for two centrifugal booster pumps.

Pump (Motor Driven Centrifugal).—City of Port Arthur, Tex., J. P. Logan, Mayor.—Bids until May 24 on one motor driven centrifugal pump of 1800 to 2000 g. p. m. capacity, against 150 foot head, directly connected to 100 H. P. motor; E. H. Miles, City Clk.

Pumps.—J. A. Dew, County Agent, Gainesville, Fla.—To correspond with mfrs. of different types of pumps for irrigation purposes; required to move large volume of water, but not to raise it more than 8-ft.

Radio Equipment.—The White House, S. O. Shadwick, Mgr., Gainesville, Fla.—To correspond with mfrs. of radio telephone equipment.

Radio Equipment.—Wm. Anderson Clarkson, 3 Clark Law Bldg., Columbia, S. C.—To correspond with mfrs. of equipment for

radio sets; also desirous of buying certain parts necessary for mfrs. of same.

Radio Receiving Apparatus.—R. L. Bryan, Secy., Lake Fairfield Nurseries Co., Bartow, Fla.—Data and prices on radio receiving apparatus, suitable for residence, to receive news, musical programs, etc., from large broadcasting stations.

Rails.—H. R. Elcher, House Bldg., Pittsburgh, Pa.—1000 tons 70 lbs. relaying rails with angle bars weighed in.; state price, condition, quote f. o. b. cars Connellsville, Pa.

Refrigerating Plant.—W. G. Yeager, County Agt., Rowan Creamery Co., Salisbury, N. C.—Bids on \$2500 refrigerating plant.

Ribbons, etc.—Gray-Smith Co., 110 Wellington St. W., Room 1, Toronto, Canada.—To correspond with mfrs. of ribbon, and also represent strong silk mill.

Rims and Covers for Water Meter Boxes.—Memphis Artesian Water Dept., W. H. Harrison, Gen. Supt., Memphis, Tenn.—Bids until Apr. 25 to furnish f. o. b. Memphis, 1000 cast iron rims and covers for 15-in. meter boxes and 11-in. lids; to be sufficient to withstand directly applied load of 3000 pounds.

Road Construction.—Haywood County Commrs., H. Arthur Osborne, Chrmn., Waynesville, N. C.—Bids until Apr. 28 to construct 4.27 mi. hard surface road between Waynesville and Delwood; 45,000 sq. yds. fine dressing; 45,000 sq. yds. plain and 45,000 sq. yds. reinforced concrete; 40,000 sq. yds. Topeka Top; construct 4.53 mi. hard surface road between Canton and Woodrow; 48,000 sq. yds. plain and 48,000 sq. yds. reinforced concrete; 43,000 sq. yds. Topeka Top; plans, etc., on file or from State Highway Comsn., Asheville, N. C.

Road Construction.—Bastrop County, J. B. Price, County Judge, Bastrop, Tex.—Bids opened Apr. 24 to improve several highways; plans, etc., from R. E. Schiller, Res. Engr., or from State Highway Dept., Austin, Tex.

Road Construction.—Hill County, Marion Clyette, County Auditor, Hillsboro, Tex.—Bids until Apr. 29 to construct bituminous surfacing and concrete curbing on Colorado-to-Gulf Highway in Road Dist. No. 1; and bituminous surfacing on King of Trails north and south from McLennan County line to north line of Road Dist. No. 1; 59,000 sq. yds. cold rolled limestone rock asphalt pavement; 71,000 sq. yds. concrete curbing on Colorado-to-Gulf Highway; and 109,980 sq. yds. inverted penetration asphalt pavement on King of Trails south; plans, etc., from T. H. Webb, Hillsboro; or State Highway Dept., Austin, Tex.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until May 3 to construct 5723 mi. State road from Alton eastward; Oregon County, State Aid Project No. 20,123; grade, construct drainage structures, etc.; M. S. Murray, Div. Engr., Sikeston, Mo.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until May 5 to construct 4261 mi. State road through Winona; grade, construct drainage structures, etc.; Shannon County, State Aid Project No. 20,160; M. S. Murray, Div. Engr., Sikeston, Mo.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Apr. 28 to construct 2389 mi. State road from Tussumbia to Pulaski County line; grade, construct drainage structures, etc.; Miller County, State Aid Project No. 20,126; S. M. Rudder, Ilgenfritz Bldg., Sedalia, Mo.

Road Construction.—State Highway Dept., Columbia, S. C.—Bids opened Apr. 23 to

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construct top-soil in Newberry County as follows: 8.5 mi. Pomaris road from Station 00 to Riebmanda County line; 5 mi. Bush River Church road from Station 00 to Station 264; 7.5 mi. Calk Ferry road from Station 00 to Station 397; 5 mi. Ninety-Six road from Station 00 to Station 264; 5 mi. Belfast road from Station 00 to Station 264-6.6 mi. Kempson road from Station 105 to Station 456; total 107,000 cu. yds. top-soil; 5000 cu. yds. cu. rock; plans, etc., from Sanders & Sweeny, Engrs., Anderson S. C. and Newberry S. C.

Road Construction, Etc.—Navy Dept., Bureau of Yards and Docks, Washington, D. C.—Bids until May 1 for about 5000 sq. yds. of 18-ft. concrete roads with integral curbs; 1550 sq. yds. of 5-in concrete walks, 4 and 6-ft. wide; storm water inlet; concrete stairway, concrete loading platform seeding and sodding at naval experimental and research laboratory, Washington (Bellevue) D. C.; drawings and specification No. 4585 obtainable at bureau.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until May 1 to construct 5.596 mi. State road from Doniphan to Popular Bluff; grade, construct drainage structures, etc.; 12-ft. wide gravel pavement; Ripley County, Federal Aid Project No. 91, Section B; M. S. Murray, Div. Engr., Sikeston, Mo.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Apr. 27 to construct 15,756 mi. hard surface road in Williamsburg Special Road Dist.; gravel and macadam; cost about \$70,000; Harry Griffith, Div. Engr.

Road Construction.—Va. State Highway Cosm., Richmond, Va.—Bids until Apr. 25 to construct following roads:

Scott County, 4.68 mi. road from Purchase to Lee County line; Project No. 73, Route 10. Louisa County, 8.2 mi. 16-ft. bituminous macadam road from Louisa to Pendleton; Project No. 109, Route 9.

Halifax County, 9.9 mi. soil road from Vernon Hill to Houston; Project No. 148, Route 12; plans, etc. on file and from Dist. Engr. Bristol, Va., for Project No. 73; and Dist. Engr. Lynchburg, Va., for Project No. 148.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until Apr. 27 to construct 8768 mi. State road from Ava, southward and westward; grade, construct drainage structures; Douglas County, State Aid Project No. 20,153; H. P. Mobberly, Div. Engr., Woodruff Bldg., Springfield, Mo.

Road Construction.—State Roads Cosm., 601 Garrett Bldg., Baltimore, Md.—Bids until May 2 to construct State Highways in following Counties: Queen County, 2.86 mi. State Highway from Sudlersville to Ingle-side; Cont. No. Q-14; Kent County, 1.34 mi. State Highway through Stillpond and Betterton; Cont. No. K-18; Montgomery County, 2.18 mi. State highway from end Cont. No. M-22 to Clarksburg; Cont. No. M-30; Frederick County, 11 mi. State highway from end Cont. No. F-7C-Extd. toward Lisbon in Howard County; Cont. No. F-7D; all concrete.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until May 4 to construct about 3 mi. Santa Fe road in Saline County; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo.

Road Construction.—Bexar County W. D. Kendall, County Auditor, San Antonio, Tex.—Bids opened Apr. 22 to improve Quintana road from Von Ormy to South San Antonio, in Precinct No. 1; gravel and grub; C. E. Hoff, County Engr.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until April 29 to construct 9452 mi. State road from Versailles to Linn Creek; Morgan County, State Aid Project No. 20,156; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until May 3 to construct 4.716 mi. State road from West Plains to Thayer; grade and construct drainage structures; Oregon County, State Aid Project No. 20,159; S. M. Rudder, Div. Engr., Sikeston, Mo.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until May 4 to construct 2.595 mi. State road from Marshall eastward and westward, National Old Trails Road; grade and construct drainage structures; Saline County, State Aid Project No. 20,155; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo.

Road Construction.—State Highway Dept., Jefferson City, Mo.—Bids until May 11 to construct 1.181 mi. State road from Grant City, southward; grade and construct drainage structures; Worth County, State Aid Project No. 20,147; A. C. Lingley, Div. Engr., Ballinger Bldg., St. Joseph, Mo.

Road Construction.—Uvalde County, L. W. Scheide Mantel, County Engr., Sabinal, Tex.—Bids until May 15 to construct 16 mi. asphalt road on Sabinal-Knipka road; State Highway No. 3; Ditzler H. Jones, County Judge.

Road Construction.—Blanco County, Wm. Martiny, County Judge, Johnson City, Tex.—Bids until Apr. 28 to construct 7.35 mi. State Highway No. 46, in Blanco County, from Comal County line; grade and construct drainage structures; 57,327.6 cu. yds. roadway excavation; W. C. Yeager, County Engr., Blanco, Tex.

Road Construction.—Orange County Comms., B. M. Robinson, Clk., Orlando, Fla.—Bids until May 18 to grade portion Orlando-East Coast road between Bithlo and Brevard County line at St. Johns River; 12.6 mi.; plans, etc., from Chas. A. Browne, Ch. Engr., Orlando, Fla.

Road Construction.—State Highway Cosm., of Alabama, Montgomery, Ala.—Bids until May 2 to construct 8.23 mi., State road between Uriah and Monroeville; Monroe County; plans, etc., on file, from Div. Engr., Selma, Ala., or W. S. Keller, State Highway Engr.

Road Construction.—State Highway Cosm., of Alabama, Montgomery, Ala.—Bids until May 16 to construct 5.307 mi. State road between Alexander City and Jackson's Gap; Section A and D; 16,500 sq. yds. mixing sand-gravel and clay; plans, etc. on file, from Div. Engr., Selma, Ala., or from W. S. Keller, State Highway Engr.

Road Construction.—Marlboro County Highway Cosm., Bennettsville, S. C.—Bids until May 4 to construct 6.691 mi. clay-gravel surface road from McLaurin's Mill to Great Pee Dee River near Cheraw; cost \$25,000; Federal Aid Project No. 155.

Road Construction.—Bamberg County Comms., Bamberg, S. C.—Bids until May 8 to construct 12.453 mi. sand-clay surface road from point near Edisto River about 2 mi. from Branchville to Bamberg City limits; cost \$40,000; Federal Aid Project No. 166.

Road Construction.—Orangeburg County Highway Cosm., Orangeburg, S. C.—Bids until May 9 to construct 14.655 mi. sand-clay road from about 2 mi. west city to city limits of Neeses; Federal Aid Project No. 113; cost \$42,500.

Road Construction.—Newberry County Comms., Newberry, S. C.—Bids until May 9 to construct 2.515 mi. road from Chappells

to point near Saluda River; Federal Aid Project No. 148; cost \$17,500.

Road Construction.—Berkeley County Comms., Moncks Corner, S. C.—Bids until May 11 to construct 6.36 mi. road from Biggon Churchyard to Binneau; sand clay surfacing; Federal Aid Project No. 161; cost \$20,000; plans, etc., from Chas. H. Moorefield, State Highway Engr.

Road Construction.—Barnwell County Comms., Barnwell, S. C.—Bids until May 12 to construct 9.56 mi. road from Barnwell to Elko; Federal Aid Project No. 151; sand-clay surfacing; cost \$25,000; plans, etc., from Chas. H. Moorefield, State Highway Engr.

Road Construction.—Cass County Court, Henry D. Nelson, County Judge, Linden, Tex.—Bids until Apr. 28 to construct 1.2 mi. State Highway No. 1-B, north of Atlanta to Queen City District line; 2407.7 cu. yds. gravel surfacing; 10,617 lbs. reinforced steel; Hess & Skinner, County Engrs., Southwestern Life Bldg., Dallas, Tex.

Road Construction.—Somervell County Court, R. L. Bryan, County Judge, Glen Rose, Tex.—Bids until May 1 to construct 3.91 mi. State Highway Nos. 25 and 10-a, from Glen Rose to Brazos River; 8476.6 cu. yds. gravel surfacing; 65,941 lbs. reinforced steel; Henry J. Cox, County Engr.

Road Construction.—Barnwell County Comms., Barnwell, S. C.—Bids until May 12 to construct 5.3 mi. road from Eklo to Barnwell-Alken County line; Federal Aid Project No. 160; sand-clay surfacing; cost \$12,000; plans, etc., from Chas. H. Moorefield, State Highway Engr.

Road Construction.—Kaufman County, J. E. Yates, County Auditor, Kaufman, Tex.—Bids until May 3 to surface 25.4 mi. State Highway No. 40, through Precincts No. 1 and 7; inverted penetration asphalt topping; 251, 146 gals. asphalt; W. P. Williams, County Judge; Bartlett & Ranney, Inc., County Engrs.

Road Construction.—Tarrant County, Hugh L. Small, County Judge, Fort Worth, Tex.—Bids opened Apr. 20 to construct 1.93 mi. road from Niles City to Haslet Road; grade, gravel and construct concrete drainage structures; R. V. Glenn, County Engr.

Road Construction.—Bexar County, W. S. Kendall, County Auditor, San Antonio, Tex.—Bids opened Apr. 22 to construct 2 concrete drainage structures on Somerset Road, Precinct No. 1; C. E. Hoff, County Engr.

Road Construction.—McCormick County Comms., McCormick, S. C.—Bids until May 18 to construct 13.5 mi. road from McCormick to McCormick-Abbeville County line; Federal Aid Project No. 14; top soil; cost \$30,000; plans, etc., from Chas. H. Moorefield, State Highway Engr.

Road Construction.—St. Johns County Comms., Obe. P. Goode, Clk., St. Augustine, Fla.—Bids until May 25 to construct 16 mi. Tocoi road from St. Augustine to Tocoi; 24 mi. Mill Creek road from Horn road to Julington Creek; 4½ mi. road to connect Mill Creek and Picolata roads; 1½ mi. road from Hastings to Putnam County line; direction of Federal Point road; 6¼ mi. road south from Hastings to Putnam County line; 3 mi. Spuds road intersecting Dixie Highway east and south of Hastings; 2.5 mi. Hastings Blvd. Extension road from Hastings Blvd. to Flagler County line; 4.7 mi. Horn road from New Augustine to entrance of St. Augustine Golf Links; 10.4 mi. Anastasia Island road extending along island.

Road Oiling Equipment.—See Paving Equipment.

Rollers.—See Paving Equipment.

Row Boats.—W. N. Willis, Engr., Cleve-

land Bldg., Spartanburg, S. C.—Prices and catalogs on row boats.

Saw (Hand Feed Rip).—See Woodworking Machine.

Seating.—Church of Christ, Rev. M. C. Korfes, Pastor, Louisville, Ky.—Church pews.

Sewer Construction.—City, Shreveport, La., J. C. Flanagan, Secy.-Treas., opens bids April 25 to construct concrete storm sewer on Trals St.; plans and specifications on file at office of City Engr., City Hall.

Sewer Construction.—City, Paul J. B. Murphy, Mgr., Radford, Va.—Bids until May 9 to construct number lin. ft. of sewers; information on application to City Mgr.

Sewer Construction.—City, A. N. Landers, Pur. Agt., Atlanta, Ga.—Bids until May 1 to construct Highland Ave. and Los Angeles Ave. sanitary trunk sewer to Ansley Park pumping station; specifications at Office of purchasing agent.

Sewer Construction.—City, W. H. Nicol, Engr., Tuscaloosa, Ala.—Bids until May 2 for following: 247 lin. ft. of 12-in., 1139 lin. ft. 15-in., 1120 lin. ft. 18-in. storm sewer; 6 manholes, 14 inlets; cost \$3500.

Sewer Construction.—City, A. B. Maupin, Engr., Huntington, W. Va.—Bids until April 28 to construct sewer in alley between 31 and 32 sts.; plans, specifications, etc. on file at office of City Engr.; Mat Miser, Commr. Streets and Sewers.

Sewer Construction.—City, T. D. Evans, Mayor, Tulsa, Okla.—Bids opened April 24 for following sewer construction: across block 15, Riverside Addition, approx. cost \$6224.95; Boston Ave. from Latimer St. to Lotimer Place, across Block 1 and 2, Powder Tomeroy and Block 4, Adams Addition, approx. cost \$7828.75; construct sanitary sewer including laterals, connections, and other appurtenances for Sewer Dist. 182; plans with City Engr.

Sewer Construction.—City, R. W. Ring, Mayor, Elkin, N. C.—Bids until May 8 to construct about 5000 lin. ft. 8-in. sewer with manholes and flush tanks; plans, etc., on file at office of Pegram & Reynolds, Consult. Engrs., 501 Wachovia Bank Bldg., Winston Salem, N. C., and at office of O. W. Chatham, Jr., Clerk.

Sewer, Water and Light Equipment.—City, Ralph Jessup, Mayor, South Hill, Va.—Bids until May 10 for constructing water works, sanitary sewer and electric light plant; work includes about 2 mi. water mains, 6 mi. sewers, pole line, brick building, frame building, foundation and boiler setting, setting all machinery steam and exhaust connections and hydraulic connections equipment as follows: two 90 K. V. A. generators direct connected to two unafow engines, five panel switchboard, two 100 H. P. 150 lb. return tubular boilers, open feed water heater, feed pump, 50 G. P. M. deep well pump and motor, 750 G. P. M. simple duplex pumps, foundation for 60,000 gal. steel tank on 75-ft. tower; plans, specifications, etc., on file at office of N. G. Smith, Town Clerk, and at office of J. B. McCrory Engineering Corp., Engrs., Atlanta, Ga.

Silk Mill.—Gray-Smith Co., 110 Wellington St. W., Room 1, Toronto, Canada—To represent strong silk mill.

Stave Machinery.—See Woodworking Machinery.

Structural Steel.—City of Nashville, Tenn., Felix Z. Wilson, Mayor.—Bids opened April 25 to furnish necessary structural steel required in rebuilding light plant; one 20 ton 50 ft. travelling crane and 2 direct connected electric freight elevators; plans with B. J. Hodge, Archt., 165 Fourth Ave., North

Sheet Metal Work.—Snider Bros., Inc., Keyser, W. Va.—Sheet Metal Work. (See Building Material.)

Shovel (Steam).—H. R. Eicher, House Bldg., Pittsburgh, Pa.—Model 31 or 36 Marion steam shovel, caterpillar traction or 35 B. Bucyrus; state price, condition, location for inspection.

Soda Fountains, etc.—Ley & Farley, Box 86, Danville, Va.—To correspond with mfrs. of soda fountains and soda fountain specialties.

Sprinkler System.—Bradley Real Estate Co., Greenville, S. C.—Invite bids on installing sprinkler system in four 60x170-ft. wooden warehouses with fire hydrants; change buildings into cotton storage warehouses.

Steel.—Moore Construction Co., Brownwood, Tex.—Reinforcing and structural steel. See Building Material.

Steel Sash.—W. H. Painter, Prest., American Steam Laundry, Radford, Va.—Prices on steel sash.

Steel Sash and Doors.—Snider Bros., Inc., Keyser, W. Va., is estimating on erection of school building at Westernport, Md., and desires sub bids on steel sash and doors.

Steel (Structural and Ornamental).—Snider Bros., Inc., Keyser, W. Va.—Structural and ornamental steel. (See Building Material.)

Surveyors Transit.—John A. Rogers, Archt., Box 506, Daytona, Fla.—To purchase first class road or surveyors transit.

Syrup Blending Plant.—L. B. Dean, Secy., Chamber of Commerce of Alexander City, Ala.—Data on syrup blending plant relative to cost of erection and equipment, beginning operation on small scale.

Tamper (Gasoline Driven).—Maryland Equipment & Supply Co., Equitable Bldg., Baltimore, Md.—P. & H. gasoline driven tamper equipped with shoe block, good condition.

Tank (Water).—Brushy Mountain Fruit Growers Oakwoods, N. C.—Galvanized iron water tank, 6-ft. diam., 6-ft. high, also 8-ft. high, both in 20 and 18 gauge; give specifications, how to put together, shipping weight, delivery and freight rate to North Wilkesboro, N. C., or f. o. b. this point.

Tank (Oil).—J. M. Worsham, Houston, Tex.—500 gal. oil tank.

Tanks (Wooden and Steel).—Farmer's Co-operative Creamery Co., Fairhope, Ala.—Prices on cypress water supply tanks, capacity 140 bbls.; also prices on same size steel tanks.

Tiling, etc.—Ley & Farley, Box 86, Danville, Va.—To correspond with tile and mantle mfrs.

Timber Development.—Wm. Crawford Smith, Box 1128, Wilmington, N. C.—Complete data on development of ash, oak, hickory, poplar timber; and most profitable uses for same.

Tinfoil.—V. B. Morgan, Mullins, S. C.—To correspond with mfrs. of tinfoil.

Tires (Solid).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until Apr. 27 to furnish 200 solid truck tires, 36x5-in. pressed-on type; delivery Depot Quartermaster, Philadelphia, Pa.; Sch. 319; information on application to U. S. Marine Corps, 1100 S. Broad St., Philadelphia.

Tractors.—See Paving Equipment.

Tufting (Automatic) Machine.—Thomas Botas, Caibarien, Cuba.—To purchase one automatic tufting machine used in making mattresses.

Twine Making Machinery.—Palm Fibre Co., West Palm Beach, Fla.—Data and prices on twine making machinery, rope and bur-

lap, also machinery for weaving coarse rugs.

Valves (Gate).—Memphis Artesian Water Dept., W. H. Harrison, Gen. Supt., 105 N. 2nd St., Memphis, Tenn.—Bids until May 2 to furnish, delivered f. o. b. Memphis, two 20-in. and three 24-in. double gate water valves; valves to be iron body, bronze mounted horizontal, hub ends, open to right with by-pass and bevel gears, operating pressure 60 lbs.

Viaduct Construction.—City, L. W. Robert & Co., Archts., Atlanta, Ga.—Bids until July 15 to build viaduct, 1900-ft. long, 60-ft. wide, 10-ft. sidewalks on each side, starting on Spring St. at Marietta and ending at Madison Ave. and Mitchell; reinforced concrete and steel encased in concrete; approaches on Alabama and Hunter Sts.

Water Meter Yokes.—Memphis Artesian Water Dept., W. H. Harrison, Gen. Supt., 105 N. 2nd St., Memphis, Tenn.—Bids until April 25 to furnish f.o.b. Memphis, 1000 meter yokes for 3/4-in. water meters, desire all installation in 15-in. diam. meter boxes.

Waterproofing.—Snider Bros., Inc., Keyser, W. Va., is estimating on erection of school building at Westernport, Md., and desires sub bids on waterproofing.

Water Works.—City, R. W. Ring, Mayor, Elkin, N. C.—Bids until May 8 to construct about 5000 lin. ft. 6x8-in. cast iron water mains together with 5 hydrants, valves and fittings, reinforced concrete reservoir, 100,000 gal. capacity; 200,000 gal. reinforced concrete filter and coagulation basin, filter house; plans, etc., on file at office of Pegram & Reynolds, Consult. Engrs., 501 Wachovia Bank Bldg., Winston Salem, N. C., and at office of O. W. Chatham, Jr., Clerk.

Water Works Equipment.—City of Evergreen, Ala.—Invite bids on motor driven 2 stage centrifugal pump direct connected to 3300 volt motor, pump to deliver 300 G. P. M. against 150 ft. head; motor driver air compressor to deliver 100 cu. ft. free air at 701 lbs. pressure, short belt drive for motor, motor 220 volt with starter; two 10 K. W. transformers, 2300-220 volts for above motor; further information apply to W. W. Hill, Consult. Engr., Auburn, Ala.

Water Works Equipment.—City of Nashville, Tenn., Felix Z. Wilson, Mayor.—Bids opened April 25 to furnish water works department F. O. B. Nashville with 125 tons of 6-in. cast iron water pipe and special fittings, twelve 6x6x6-in. tees, three 6x6 split sleeves and valves and six 6-in. offset bends; also 8-in. Foster Class G steam reduction valves; specifications at office of Supt. of Water Works.

Water Works Improvements.—City, Tom E. Acker, Mayor, Jacksonville, Tex.—Bids until April 28 for water works improvements, contracts No. 1 to No. 11 inclusive: earth, dam, control works and appurtenances, pump and filter plant buildings, basins, etc.; cast iron pipe and fittings, materials only, valves, hydrants, etc., jointing materials, installing materials, in contract No. 3, 4, 5, pipe gallery and filter plant fittings and valves, filter controllers, gauges, venturi meter, electrically driven pumps and motors in place, oil engine and pump; water and fuel oil tanks; plans, specifications, etc. on file at office of H. N. Roberts, Engr., Box 9, Longview, Tex.

Well Drilling.—City Comsn., E. P. Owen, Jr., Secy., Jacksonville, Fla.—Bids opened April 27 for deeping 10-in. artesian well, Market and Phelps Sts.; plans with O. Z. Tyler, Supt., Power Plant, Engineer Bldg., Main and Orange St.

Woodworking Machinery.—H. P. Thorn, Martinsburg, W. Va.—To purchase mchy. for making axe handles, spokes, etc., out of hickory wood, also mchy. gum barrel staves.

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Woodworking Machinery—Wm. Crawford Smith, Box 1128, Wilmington, N. C.—Data and prices on mchy. for mfrs. from hardwoods into finished forms for automobile building, auto trucks, base ball bats, etc. and other uses of ash wood, hickory, etc.

Woodworking Machinery—O. Ross Brown, Box 368, Bennettsville, S. C.—To correspond with mfrs. of mchy. to make wooden barrels, crates and baskets, also wood handles.

Woodworking Machinery—E. B. Hinman, Warsaw, N. C.—Mchy. for mfrs. of staves, headings, boxes, crates, etc.

Woodworking Machinery—Bailey Undertaking Co., T. E. Bailey, Pres.-Treas., Union, S. C.—To purchase rip and cut-off saw, band or scroll saw, jointer and sander, with motor power attached to shaft; machines either separate or combined in one light machine except the sander; correspond with mfrs.

Woodworking Machinery—Princeton Building Material Co., 2215 Walters Ave., Princeton, W. Va.—Prices on single end tenoner machine; hand feed rip saw; Phillips window frame machine No. 3.

Financial News

New Financial Corporations.

Fla., Jacksonville—Fidelity Securities Corp., capital \$25,000, chartered with B. W. Norman, Pres., D. P. Waite, V.-P.

Fla., Miami—Commonwealth Savings & Loan Association, capital \$500,000, inceptd. with H. A. Atkinson, Pres.; J. N. Randel, V.-P. and Gen. Mgr.

Fla., West Palm Beach—Minnesota Loan & Investment Co., capital \$50,000, chartered with C. E. Lovett, Pres., M. E. Moody, V.-P.

Ga., Abbeville—Farmers Loan and Finance Corporation, capital \$250,000, organized with T. M. Cook, Pres., Oscar Cannon and M. P. Jackson, V.-Pres.

Md., Baltimore—Bankers' Mortgage Co., capital \$2,000,000, chartered with Derlin A. McKindless, Geo. M. Atwell and Daniel J. Meyer.

Md., Baltimore—Garrison Boulevard Building and Loan Association, Inc., 102 New Amsterdam Bldg., capital \$500,000, inceptd. with Jas. C. Spittler, Louis J. Schneider and J. Calvin Carney.

Md., Rock Hall—Rock Hall Building and Loan association, Inc., capital \$300,000, inceptd. with G. Elsworth Leary, W. Reybold Wilson and others.

Miss., Biloxi—Mutual Homestead Association, capital \$250,000, organized with J. W. Apperson, Pres., U. Desporte, V.-P.

Miss., Crystal Springs—Peoples Bank of Crystal Springs, capital \$25,000, chartered with W. B. McCuney, Pres.

Mo., Sikeston—A. J. Matthews & Co., Inc., capital \$3,000,000 reorganized with W. C. Connett, Pres., Liberty Central Trust Co., St. Louis. (Lately noted.)

Mo., St. Louis—Missouri National Bank of St. Louis, conversion of Newmarket Bank of St. Louis, capital \$200,000.

N. C., Asheville—National Bank of Commerce, capital \$100,000, chartered with B. S. Colburn, Junius G. Adams and others.

N. C., Greensboro—Station—City voted \$1,300,000 bonds to lend Southern Railway Co. to build station and underpass; will issue \$800,000 bonds; legality to be passed upon by Supreme Court before issued. W. L. Murray, City Clk. (Lately noted.)

Okla., Altus—Altus National Bank, con-

version Altus State Bank, capital \$50,000, surplus \$31,000; J. R. McMahan, Pres.; H. B. Bellenger, Cashr. (Lately noted.)

Okla., Bliss—Bank of Maryland, capital \$10,000, organized with William Collier, Pres., C. S. Foulds, Cashr.

Okla., Custer City—Peoples National Bank of Custer City, capital \$25,000, conversion of Peoples State Bank; correspondent J. H. Hoberecht.

Okla., Dustin—First National Bank, conversion Dustin State Bank, capital \$25,000, surplus \$5000; W. R. Blake, Pres.; D. W. Johnston, V.-P.; both Welletka. (Lately noted.)

Okla., Hastings—Oklahoma National Bank, conversion of Oklahoma State Bank, capital \$25,000, chartered with C. T. Abell, Pres., Oklahoma City; C. C. Stephens, Cashr., Hastings. (Lately noted.)

Okla., Kemp City, P. O. Hendrix—First National Bank of Kemp City, conversion of First Bank of Kemp, capital \$25,000.

Okla., Mill Creek—Mill Creek National Bank, capital \$25,000 succeeds Home State Bank of Mill Creek; G. T. Webber, correspondent.

Okla., Tulsa—Southwestern Bankers Life Insurance Co., capital \$250,000, inceptd. with Charles P. Peters, Pres.

Okla., Tyrone—Farmers National Bank of Tyrone, capital \$25,000 conversion of Farmers State Bank of Tyrone; D. P. Metcalf, Pres.; J. A. Metcalf, Cashier.

Okla., Wheatland—First National Bank of Wheatland, \$25,000 capital, organized with F. L. Horton, Pres., J. Hunker, V.-P. (Lately noted.)

S. C., Columbia—First Carolinas Joint Stock Land Bank, capital \$250,000, chartered with Asbury F. Lever, Pres.

Tenn., Benton—School—Polk County Court, T. S. Gardner, Chrmn., sold \$60,000 5% bonds at par, accumulated interest and \$125 premium to Hamilton National Bank, Chattanooga.

Tenn., Tullahoma—Farmers & Merchants Bank, reorganization of Bank of Morrison; Grover C. King, Pres.; B. M. Smoot and C. H. Ramsay, Vice-Pres.; \$50,000 capital.

Tex., Beaumont—Jefferson Building & Loan Association, capital \$250,000, organized with W. C. Tyrrell, Pres., F. B. Martin, V.-P.

Tex., Cleburne—Guaranty State Bank, conversion of Traders' State Bank, capital \$100,000, chartered with R. B. Caldwell, Pres., Corsicana; Bayard Taylor, V.-P., Dallas and Blau.

Tex., Corrigan—Corrigan National Bank, conversion of Corrigan State Bank, capital \$25,000.

Tex., Dallas—Guaranty Bank & Trust Co., W. O. Connor, Pres., applied for charter and will change name to Republic National Bank.

Tex., El Paso—First Safe Deposit Co., capital \$100,000 organized with Jas. G. McNary, Pres.; Frank M. Murchison, V.-P.

Tex., Houston—Improvement—City, J. C. McVea, Engr., will vote May 6 on \$1,550,000 bonds, including \$250,000 for bridges, \$200,000 for public library, \$750,000 for street paving, \$250,000 for drainage and \$100,000 for hospital. (Lately noted.)

Tex., Kenedy—Nichols National Bank, capital \$60,000 conversion of First State Bank & Trust Co.

Tex., Kenedy—First National Bank of Kenedy, capital \$50,000, conversion of Farmers & Merchants State Bank of Kenedy.

Tex., Miles—Miles National Bank, capital \$75,000, surplus \$2000, reorganized with R. W. Bruce, Pres., Ballinger; Ray B. Johnston, V.-P. Miles. (Lately noted.)

Tex., Ranger—Ranger State Bank, capital

\$75,000, organized with H. M. Newham, Pres., J. M. Dodson, Cashr.

Tex., San Antonio—Commercial National Bank of San Antonio, conversion of Commercial State Bank of San Antonio, capital \$200,000; Geo. B. Taliaferro, Pres., H. M. Baetz, Cashr.

Tex., Tyrone—Farmers' National Bank, capital \$25,000, conversion of Farmers' State Bank; D. P. Metcalf, Pres.

Tex., Wellington—City National Bank, conversion of City State Bank, capital \$100,000.

Va., Roanoke—Mercantile Finance Corp., capital \$100,000 chartered with A. G. Crosby, Pres.; H. H. Dudley, Secy. (Lately noted.)

Va., Victoria—First National Bank of Victoria, capital \$25,000 conversion of Virginia Bank of Commerce.

New Securities.

Ala., Bessemer—Improvement—City sold \$60,000 7% bonds to First National Bank of Bessemer at \$100.50.

Ala., Gadsden—School—H. C. Thomas, City Clk., opened bids Apr. 20 on \$250,000 6% bonds.

Fla., Eustis—Paving, Sewers, etc.—City Council called election on \$110,000 bond issue.

Ala., Ozark—Improvement—City Council sold \$38,000 7% bonds; \$1000 denomination; date of maturity Jan. 2, 1952.

Ala., Sheffield—School—City, Allen J. Rouillac, Pres. of City Comsn., received bids April 25 for \$110,000 5% bonds; due 30 years.

Ark., Pine Bluff—Drainage—Salt Bayou Drainage—Salt Bayou Drainage Dist., W. C. Hudson, Secy., sold \$425,000 5½% bonds to Wm. R. Compton Co., St. Louis, at \$99.25; \$500 and \$1000 denomination; dated May 1, 1922; date of maturity 5-25 years.

Fla., Avon Park—Paving and Park Improvements—City, D. A. Sapp, Mayor, G. L. Crews, Clk., voted \$75,000 6% bond issue; \$500 denomination; dated May 1, 1922; date of maturity, May 1, 1952; will sell for not less than 95%. (Lately noted.)

Fla., Bushnell—Paving—C. B. Allen, City Clk., will receive bids until May 22 for 10 \$1000 6% semi-annual bonds; dated July 1, 1921; maturing 1 bond 5 years from date thereof and 1 each year thereafter until all are paid.

Fla., Fort Lauderdale—Street, Fire Equipment, Drainage, River Improvement—City voted \$70,000 6% 20-year bond issue; \$1000 denomination; including \$36,000 for street improvement; \$4000 fire equipment; \$20,000 drainage and \$10,000 river improvements. Address H. C. Davis. (Lately noted.)

Fla., Green Cove Springs—Board of Bond Trustees, F. I. Robertson, Secy., will receive bids until May 8 at City Hall for \$150,000 6% bonds; par value; \$1000 denomination; bonds numbered 1 to 150; bonds 1 to 30 due and payable Jan. 1, 1932 and 5 of said bonds consecutively numbered mature Jan. 1 each year thereafter up to Jan. 1, 1956.

Fla., Kissimmee—Road and Bridge—Osceola County Commrs., J. L. Overstreet, Clk., sold \$80,000 of 6% Lake Wilson Dist. bonds to Chas. M. Lowe, Jacksonville, Fla. (Lately noted.)

Fla., Miami—School—Board of Public Instruction for Dade County received bids at office of Supt. until Apr. 29 for \$200,000 6% bonds of Special Tax Dist. No. 2; dated May 1, 1922 to May 1, 1942; payable semi-annually.

Fla., Sanford—Bridge, etc.—Seminole County voted \$100,000 bonds issued to repair roads

and construct bridge. Address County Commrs.

Fla., Starke—Roads—Bardford County, C. A. Futch, Secy., will receive bids until May 2 for \$550,000 6% serial bonds; \$1000 denomination; issued Jan. 1, 1922.

Fla., Taveres—Roads—Lake County Commrs. called election for May 9 on \$250,000 bond issue.

Fla., Williston—Paving—City, A. B. Jarrell, Prest. of Council, sold \$12,000 6% \$1000 denomination bonds to Mickler & McLeod, Tampa at par; dated Jan. 1, 1922; date of maturity, \$3000 Jan. 1, 1932 and \$3000 each year thereafter to Jan. 1, 1935 inclusive.

Ga., Cairo—Schools—School Board, W. B. Roddenberg, Secy.-Treas., opened bids Apr. 25 on \$60,000 6 per-cent bond issue; \$100 denomination; dated May 1, 1922; \$3000, Jan. 1, 1932 and \$3000 annually thereafter. (Lately noted.)

Ga., Tifton—Sewer, Water and Light Plant—City will vote May 15 on \$75,000 5% bonds. Address The Mayor. (Lately noted.)

La., Arcadia—School—Bienville Parish School Board, E. H. Fisher, Sec.-Treas., will receive bids until May 18 on \$40,000 Gibbsland School Dist. No. 2 bonds; 6% interest payable semi-annually; serial, maturing in 10 years; \$500 denomination.

La., Baton Rouge—Roads—East Baton Rouge Police Jury, F. A. Woods, Secy., sold \$175,000 5% bonds at \$175,666 to National Bank of Commerce, St. Louis; \$1000 denomination; July 1, 1922 to 1936. (Lately noted.)

La., Benton—School—Bossier Parish School Board, R. V. Kerr, Secy., will receive bids May 9 for \$150,000 6% 1-20-year serial bonds.

La., Winnsboro—Water and Sewer—Town, H. G. Vaught, Mayor, will vote in May on \$80,000 bond issue; \$1000 denomination; 1 to 30 years; not to exceed 6%. (Lately noted.)

Miss., Batesville—Light—City will vote May 1 on \$25,000 bond issue. Address The Mayor.

Miss., Pascagoula—Road—Jackson County Board Supvrs. sold \$387,000 bonds to Bank of Commerce and Trust Co., Memphis, Tenn.; plus accrued interest since Mar. 1921 and \$100 bonus.

Miss., Starkville—School—Board of Aldermen called election for May 1 on \$25,000 bond issue.

Md., Baltimore—Water, Improvement—Commr. of Finance will receive bids until May 1 for \$5,474,000 general improvement, and \$2,858,000 water bonds; 5% interest.

Miss., Durant—Waterworks, Drainage, School—Mayor and Board of Aldermen called election on May 1 for \$50,000 bonds for waterworks, \$20,000 for drainage and sewerage and \$10,000 for repairs to schools.

Mo., Blodgett—School—Blodgett Consolidated School Dist. voted \$25,000 bonds. Address School Board.

Mo., Mountain Grove—Water, Paving and Indebtedness—City, John A. Dennis, Mayor, sold \$35,000 6% bond issue to Little, Vardaman & Bitting, St. Louis, at \$100 and accrued interest; dated Apr. 18; mature in 15 years.

Mo., St. Joseph—Road—Buchanan County Court plans to sell \$600,000 bonds; Perry Brubaker, Prosecuting Atty.

Mo., St. Joseph—Road—A. E. Nash, Buchanan County Treas., will receive bids until May 1 for \$600,000 5% semi-annual 9-14-year serial bonds.

Mo., Poplar Bluff—Schools—School District opened bids April 25 on \$75,000 bonds; \$500 denomination; dated May 1, 1922;

\$5000 annually beginning Feb. 1, 1927; 5 per-cent payable semi-annually. (Lately noted.)

N. C., Bessemer City—Improvement, Funding, Water—Board of Town Commrs., M. L. Ryne, Town Clk., will receive bids until May 1 on \$112,000 public improvement and funding bonds and \$8000 water bonds; dated May 1, 1922; 6% interest payable semi-annually; \$1000 denomination; public improvement and funding will mature serially, four on May 1 in each of years 1925 to 1937, six on May 1 in each of years 1938 and 1939, eight on May 1, 1940, and ten on May 1 in each of years 1941 to 1944; water bonds will mature serially one on May 1 in each of years 1925 to 1932.

N. C., Cornelius—Electric—Town, T. P. Howard, Clk., will receive bids until May 1 for \$10,000 6% bonds; \$500 denomination; dated Apr. 1, 1921; maturing 1 bond each year 1924-43.

N. C., East Durham—School—East Durham District will vote the latter part of May on \$40,000 bonds; John W. Carr, Jr., County Supt. (Lately noted.)

N. C., Hickory—School—Catawba County Commrs. called election in June on \$50,000 bond issue.

N. C., High Point—School—Mayor and City Council called election for June 6 on \$250,000 bond issue. (Lately noted.)

N. C., Leaksville—Water and Sewer—J. W. Norman, Town Clk., received bids until Apr. 27 for \$110,000 waterworks and \$105,000 sewer bonds; 25-year average.

N. C., Lexington—School—Lexington. Erlanger-Fowler, Happy Hill, Yarbrough and Dacotah school districts will vote May 30 on \$225,000 bond issue. Address School Board.

N. C., Raleigh—Road—B. R. Lacy, State Treas., received bids until April 27 for \$15,000,000 5% 24 2-3-year average bonds. (Lately noted.)

N. C., Springhope—School—Stanhope School Dist. voted \$20,000 bonds issue. Address Atty. Bruce Craven.

N. C., Wilson—Road—Wilson County will not vote on \$2,000,000 bond issue as lately noted.

Okla., Henryetta—Sewer, Water, Fire Department—City, R. B. F. Hummer, Atty., sold \$230,000 6% bonds at \$8020 premium to C. Edgar Honnold, Oklahoma City; same as follows: fire department, \$25,000, due in 10 years; water, \$45,000, due in 15 years; storm sewer, \$75,000, due in 20 years; sanitary sewer, \$85,000, due in 25 years.

Okla., Jennings—School—City voted \$15,000 bond issue. Address School Board.

Okla., Norman—Road—Cleveland County Commrs. are reported to be considering calling election on \$600,000 bond issue.

Okla., Oklahoma City—Schools—City voted Apr. 25 on \$1,900,000 bonds issue; J. G. Stearley, Clk., 400 W. Walnut Ave.

Okla., Purcell—School—Board of Education called election on \$75,000 bonds.

S. C., Orangeburg—Street—T. O. S. Dibble, City Clk., will receive bids until Apr. 28 for \$250,000 5½% semi-annual average bonds.

S. C., Aiken—Indebtedness—Aiken County Board of Commrs., C. J. Hill, Chrmn., will receive bids until May 1 for \$150,000 6% semi-annual bonds.

S. C., Greenwood—Road—Greenwood County Commrs. sold \$65,000 5 per-cent bonds to D. C. Heywood & Co., Columbia at par with accrued interest and premium of \$1000; mature in 25 years.

S. C., Greer—School—City voted April 25 on \$25,000 bond issue. Address The Mayor.

Tenn., Ducktown—Courthouse—Polk

County will sell \$20,000 bond issue to erect courthouse. Address County Commrs., Benton.

Tenn., Erwin—School—Unicoi County Court voted \$25,000 bond issue. Address County Commrs.

Tenn., Memphis—School—G. W. Garner, Secy. of Board of Education will receive bids until May 11 on \$500,000 bonds; dated April 1, 1922 and will mature serially as follows: \$10,000 on Apr. 1 in each of the years 1928-1947; \$20,000 on April 1 in each of the years 1948-1957; \$30,000 on April 1 in each of the years 1960-1961; denominations of \$1000 each; numbered from 1 to 500; 4½, 4% or 5% interest payable semi-annually; will not be sold for less than par and accrued interest until date of delivery, free from commissions and brokerage.

Tenn., Tullahoma—School—City, B. H. Wilkins, Mayor, voted \$50,000 to \$60,000 bond issue; probably serial, \$3000 each, dated 1926 to 1937 and and \$4000 each, dated 1938 to 1943; not over 5 per-cent. Will advertise for bids immediately. (Lately noted.)

Tex., Anahuac—School—Anahuac Independent School Dist. sold bonds to H. C. Burt, Houston.

Tex., Austin—Road—Tarvis County Commrs., may vote on \$350,000 bonds.

Tex., Ballinger—Street—City, C. S. Green, Mayor, voted on \$50,000 bonds.

Tex., Cameron—School—Mayfield School Dist. No. 63 sold \$17,000 bonds to Houghton-Lunsdant Co., Dallas at par and accrued interest.

Tex., Childress—Water—City, J. E. Baker, Secy., will receive bids until May 1 for \$310,000 5¼% semi-annual \$1000 denomination bonds; maturities, \$6000, 1924; \$8000 annually 1925 to 1962 inclusive. (Lately noted.)

Tex., Clarendon—Water Works—City, will open bids May 2 for \$75,000 6% semi-annual bonds; \$500 denomination; dated Apr. 15, 1922; date of maturity, Apr. 15, 1933 to Apr. 15, 1962, serial; W. D. Howren, Engr., Box 72, Amarillo. (Lately noted.)

Tex., Dayton—Road—Liberty County Commrs., will open bids Apr. 24 on \$1,300,000 bonds.

Tex., Edinburg—Road—Hidalgo County voted \$1,250,000 bonds; approved by Attorney General, Austin, Tex.

Tex., Galveston—Road, etc.—R. Lee Kempner purchased \$85,000 worth of serial bonds of Galveston County special 1921 road issue, at par and accrued interest.

Tex., Graham—School—Atty. General's Dept., Austin, approved \$65,000 bond issue voted. Address Supt. of Schools, Graham.

Tex., Laredo—Webb County—Road—Webb County, will vote May 8 on \$150,000 bonds; A. Winslow, County Judge; T. R. Spence, County Engr.

Tex., Liberty—Road—Liberty County, Sam Cain, County Judge, opened bids April 24 on \$1,309,000 5½% bonds.

Tex., Lufkin—School—Lufkin Independent School Dist., Dr. J. C. VanNuys, Secy., will receive bids until May 22 at office of Lufkin Electric Light & Power Co., for \$100,000 6% semi-annual bonds; dated May 1, 1922; five bonds of \$500 denomination each become due May 1, 1923, and five bonds of \$500 each become due every May 1 thereafter to and including 1962.

Tex., Marshall—School—City plans to vote on \$250,000 bond issue. Address The Mayor.

Tex., McKinney—Improvement—Atty. General, Austin, approved \$150,000 bond issue for Levie Improvement Dist. No. 1; O. T. Murray, Collin County Judge, McKinney.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Memphis—Street—City, will vote May 9 on \$65,000 bonds. Address The Mayor. \$30,000 bonds. Address The Mayor.

Tex., Nacogdoches—School—City will vote May 8 on \$50,000 bonds for additions to high school; R. T. Davis, Supt. of Schools.

Tex., Raymondville—Courthouse—Atty. General, Austin, approved \$75,000 bond issue to erect Willacy county courthouse and jail. Address County Judge.

Tex., Sherman—Paving, School—City will vote May 12 on \$100,000 bonds to enlarge school and \$50,000 for street paving. Address The Mayor.

Tex., Taylor—School—City Comsn. sold \$150,000 bonds at \$98.27 to National Bank of Commerce, St. Louis.

Tex., Wills Point—Street—City voted \$30,000 bonds. Address The Mayor.

Va., Dublin—School—Dublin School Dist. voted \$46,000 bond issue. Address Board of Educations, Pulaski. (Lately noted.)

Va., Tazewell—Road—Board of Supvrs. of Tazewell County, H. S. Surface, Clk., sold \$150,000 5% bonds to Prudden & Co., Toledo, O., at par and accrued interest; \$1000 denomination; dated May 1, 1922; date of maturity about 27 years.

Va., Tazewell—Road—Board of Supvrs. of Tazewell County, H. S. Surface, Clk., sold \$150,000 5% bonds. (Lately noted.)

W. Va., Camden-on-Gauley—Water Works—City will sell \$4400 6% bonds at par with accrued interest; \$400 denomination; dated Jan. 1, 1922 to June 1, 1937. Address The Mayor. (Lately noted.)

W. Va., Fairmont—Roads—Marion County Union Dist. voted \$391,000 bond issue. Address County Commrs. (Lately noted.)

W. Va., Logan—Paving, Sewer, etc.—City votes Apr. 15 on \$50,000 bonds; Jas. A. Hog, Mayor.

W. Va., New Martinsville—School—New Martinsville and Paden City voted \$149,000 bond issue. Address The Mayor.

Financial Notes.

Alleghany Housing Corp., Charleston, W. Va., plans changing name to Charleston Home Building Co., and increasing capital from \$50,000 to \$100,000; G. A. Floersch, Secy.

American Exchange National Bank, Dallas, Tex., declared a stock dividend of \$500,000, increasing capital from \$1,500,000 to \$2,000,000.

City of Durham, N. C. will borrow \$100,000 at 6 per cent for 60 days; in anticipation of collection of taxes and other revenue from city. Address The Mayor.

Exchange Banking and Trust Co., Charleston, S. C., absorbed the Charleston Savings Institution and increased capital from \$100,000 to \$150,000; William King McDowell, Pres.

John B. Oldham, Dallas purchased \$25,000 worth of causeway bridge bonds of 1917 issue at par with interest to date of delivery.

N. C., Carthage—Bank of Moore has been purchased by and consolidated with the Page Trust Co.

Phoenix Building & Loan Association, Newport, Ky., increased capital from \$400,000 to \$800,000.

Texas Bank and Trust Co. purchased \$4500 worth of causeway bridge bonds of 1917 with coupons attached for \$4600.

Third National Bank, Columbus, Ga., increased capital from \$400,000 to \$500,000;

Wm. C. Bradley, Prest.; Toombs Howard and J. J. Pease, V.-P. (Lately noted.)

Trade Literature.

Catalog of Door Hardware.

The Newman Manufacturing Co., of Cincinnati, O., have just issued a complete catalog of special brass and bronze door hardware. This booklet illustrates kick plates, push plates, door bars, thresholds, railings, etc., and should be of interest to general contractors as well as to the trade.

A Fine Pump Catalog.

Dean Bros. Steam Pump Works, Indianapolis, Ind., have issued a fine catalog with cover in colors, concerning their line of "Durable" duplex pumps. This organization have been building pumping machinery for all purposes for more than fifty years and their patterns cover a wide range to supply pumps especially designed and constructed for any particular work. They have devised a new style of duplex pump which is described as a great improvement over the old duplex form. The book is finely illustrated and has complete tables and descriptions.

Steel Forms for Concrete Work.

A fine catalog has just been issued by the Heltzel Steel Form & Iron Co., Warren, O., picturing and describing the numerous and conspicuous advantages of their steel forms for road, curb, gutter, sidewalk and culvert construction, etc. The illustrations are unusually excellent and reveal to the reader the methods of using them. Engineers, contractors and others interested in road building will appreciate this publication and especially the valuable quality of its contents. Page 1 gives a complete description of the forms.

Single Line Cableway.

The Deschanel Engineering Corporation, 90 West Street, New York, have issued the Deschanel Cableway Bulletin, a fine publication describing and illustrating their single line cableway which has many exclusive and patented features and is a most efficient, economical and inexpensive material handling apparatus. With it, bulk materials, such as coal, can be unloaded directly from railroad cars or barges into storage, and then reclaimed again for further transportation to a power house. Ashes can be removed from boiler rooms to cats or storage pits without further change in the equipment.

Book Review.

America vs. Europe in Industry. By Dwight T. Farnham. New York: The Ronald Press Company. Pp. 491. \$4.00.

This book, whose author is a consulting industrial engineer and vice president of C. E. Knoeppel & Co., Inc. and also director and vice president of the Society of Industrial Engineers, is a graphic comparison of present European and American manufacturing methods and shows how Europe is preparing to fight strenuously against America for the trade of the world. The work is one of decided importance to every manufacturer and business man as well as to all others interested in the future of industrial development in the United States. Mr. Farnham gives a report of a detailed study and analysis of actual conditions in European industry, this being the outcome of extended personal investigation of industrial methods in the principal cities of Great Britain and the

continent of Europe. It points out the scientific developments in those centers and tells of the remarkable results attained. Then there are outlined the standards which have been developed in the best American plants and next comes a description and estimate of European practice with respect to these points. The book is written from the standpoint of the industrial executive interested in the best methods of management at home and abroad and from that of the impartial observer, taking the point of view of a man who, after gaining industrial experience as laborer, foreman and manager, is now acting as adviser to both labor and capital. The material for the volume was obtained, it is stated, 'at first hand from those who guide industrial thought abroad today and it is important to everyone who desires to understand the effects of the war on international industry and on the future of industrial civilization. The illustrations are numerous, consisting of reproductions of photographs and diagrams all pertinent to the text. The author's style is interesting and most impressive.

Book Review.

A Life of George Westinghouse. By Henry G. Prout, C.E., A.M., LL.D. New York: Charles Scribner's Sons. 1922. \$2.50.

In this large and entertaining volume of nearly 400 pages will be found many sidelights upon the character and achievements of one who stood high among America's great men. A man of conspicuous intellect and tireless industry, George Westinghouse wore himself out in his work and died at the age of 68 years in 1914. Had he taken things easier he might have lived many years more, for he came of sturdy stock. In the arrangement of the mass of material dealing with the life of Mr. Westinghouse, the author has found it practically impossible to depict the events of his career in chronological order. As he says in the preface: "The activities of George Westinghouse were many and varied, and many different activities went on simultaneously. He dealt in the same week and often in the same day, with organization, financial and executive affairs, commercial affairs, and the engineering details of half a dozen companies in two hemispheres. They were as far apart in kind as the air brake and natural gas, and as far apart in geography as San Francisco and St. Petersburg." Therefore each topic is treated alone, although there might at the same time have been much activity in other lines in which Mr. Westinghouse was prominent. For instance, when the famous trials of the air brake were going on in 1887 and 1888, there was also a great amount of work being done with the alternating electric system, the transformer, the induction motor and the polyphase meters. Westinghouse was therefore spending much time and effort to convince railroad heads that the air brake was the best means of train control and at the same time was fighting hard to impress his ideas as to the alternating current upon electrical heads throughout the country. The chapter telling the story of the Westinghouse contract for lighting the Chicago World's Fair and the manner in which he fulfilled it is a thrilling tale of American energy and resource in the face of great opposition. As the author points out, Mr. Westinghouse possessed the power of being able to foresee the possibilities of the inventions of other men and he had the quality of persistence to make them commercially possible. For instance, he was able to perceive the need for quick acting brakes for trains of great length and high speed. He also championed the alternating current electric system and it is remarked that 95 per cent of the electric energy manu-

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factured now is alternating current, whereas the alternating current was once fought as a menace. Those chapters relating to the personality of George Westinghouse are very interesting, revealing as they do the kindly and considerate side of his character and his devotion to public service.

Book Review.

History of the Southern Pacific. By Stuart Daggett, Ph. D. New York: The Ronald Press Company. Pp. 470. \$5.00.

In this comprehensive book the author, who is professor of railway economics and dean of the College of Commerce, University of California, tells the story of the origin and building of the Southern Pacific Railway, showing in a most complete, entertaining and instructive manner how the financial and physical difficulties were steadily overcome. The entire history of the road is covered so as to emphasize its characteristics as a business enterprise. It describes the construction of the Central Pacific Railroad, which is now a subsidiary of the

Southern Pacific, by Government aid. The completion of this line and its junction with the Union Pacific Railroad accomplished a closer union between the eastern states and the Pacific Coast and marked a new epoch in the development of this country. The subsequent construction of the Southern Pacific Lines, in order to maintain a monopoly is also related, and the four men—Huntington, Stanford, Crocker and Hopkins—who were dominant factors in the work from the beginning, are graphically portrayed. Other subjects fully and impressively discussed are the final adjustment of the Central Pacific Railroad's debt to the Government, the litigation about oil and timber lands, the Union Pacific merger and its dissolution by the Supreme Court, and the effect of transportation rates upon the development of the Pacific Coast. Mr. Daggett has gathered his material from numerous original sources and his work therefore possesses a fullness that is exceedingly gratifying concerning an important period in the history of our country.

Larger Quarters Occupied.

George Dowman, contractor for fireproof specialties, Atlanta, Ga., has removed his offices from the National City Building to 610-611 Walton Building, the change being compelled by growth of business and the consequent need for larger quarters.

Branch Office Opened.

Warren Webster & Co., manufacturers of feed water heaters, etc., Camden, N. J., have opened an office at 714 Union & Planters Bank Building, Memphis, Tenn., under the charge of B. R. Hoshall. It will be operated as a branch of the firm's office in St. Louis.

Sales Managers Named.

The Sharon Pressed Steel Co., of Sharon, Pa., have made the following appointments: W. C. Ames to be district sales manager at 20 East Jackson Boulevard., Chicago, Ill., and Ralph E. Phillips to be district sales manager with headquarters at 66 Broadway, New York City.

New Business Connection.

John M. Bailey, for over thirty years secretary of the Pittsburgh Testing Laboratory, has been elected vice-president and secretary of the Standard Inspection Co., Bessemer Building, Pittsburgh, Pa. He will take up his new duties immediately and, with his wide experience in the inspection line, will be a valuable addition to the organization.

New President Elected.

At a recent meeting of directors of the James Leffel & Company, manufacturers of turbine water wheels, steam engines and boilers, Springfield, Ohio, A. F. Sparks, general manager, was also elected to be president, thus filling the vacancy caused by the death of George R. Prout, while Harold A. Prout, a member of the board, was chosen vice president. Mr. Sparks therefore is now president and general manager. Other members of the directorate include B. F. Kaufman, treasurer; A. L. Baylor, secretary; E. J. Sanderson and H. V. Mitchell. The business policy of the organization will continue unchanged; it has been the foundation of 60 years of success, and this year the sixtieth anniversary is being celebrated.

Contract for Big Tunnel Shields.

The Merchant Shipbuilding Corporation, Chester, Pa., have a contract from Booth & Flynn, Ltd., general contractors, New York, to furnish six tunnel shields for the new Hudson River vehicular tunnels. These shields, made of structural steel, are cylindrical, 30 feet in diameter, and 18 feet long, and weigh about 250 tons each; they are used for driving the tunnels after shafts have been sunk, hydraulic jacks being employed to push them forward. The tunnels will consist of two tubes parallel to each other and from 15 to 30 feet apart and 47 feet below the river bed. Each will be 6500 feet long. It should also be noted that this corporation supplied riveted steel pipe for the Catskill Aqueduct.

Improvements At a Tile Plant.

The Murray Roofing Tile Co., Cloverport, Ky., have opened a new clay bed adjacent to their plant, have built a railroad track with an incline to run loaded cars into the upper story of a new storage warehouse, have purchased automatic dump cars, and also have constructed their own locomotive. A new system of conveyor belts will be installed, these changes having been made necessary by the increased demand for the roofing tiles which this company manufactures,

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest are invited from our readers whether they are advertisers or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Office Address Changed.

The office address of the Chicago Bridge & Iron Works has been changed from the Old Colony Building, Chicago, Ill., to the Transportation Building in that city.

Representatives Appointed.

The McClave-Brooks Company, manufacturers of McClave combustion systems, with main office and works at Scranton, Pa., have appointed the Steam Plant Equipment Co., 201 Mutual Building, Kansas City, Mo., as their representatives in that territory.

Sale of Machine Tools, Etc.

A peremptory liquidation sale at auction of surplus machinery, equipment and supplies of the Regina Manufacturing Corporation, Rahway, N. J., is to take place there at 10 A. M., Friday, May 5, according to a formal announcement giving particulars in another column. The material to be sold includes machine tools, shelf hardware, round and flat steel, office furniture, etc. Samuel T. Freeman & Co., auctioneers, 1519-1521 Chestnut St., Philadelphia, Pa., will supply catalogs on request.

Agency Not Yet Established.

With reference to the work of Jerome P. Chase, 12 E. Lafayette Ave., Baltimore, Md., in connection with the sale of Atterbury motor trucks as mentioned in the Manufacturers Record of April 6, it must be stated that an error occurred in stating that he had been appointed agent by the Atterbury Motor Truck Co., of Buffalo, N. Y. The company, it appears, desiring to aid him on account of his loss of sight during the war, has permitted him to sell its trucks wherever possible, but his connection with them is only in the manner of a free-lance and only until the company is able to make definite arrangements in Baltimore and other Southern territory.

Sale of Valuable Marble Land.

A tract of 250 acres of land containing an extensive bed of high quality marble is to be disposed of at receiver's sale on June 6, at Jasper, Ga., according to announcement in another column giving particulars. The sale will be by auction. Howard Tate, Jasper, Ga., is receiver.

Large Electrical Contract.

The West Leechburg Steel Co., Leechburg, Pa., recently bought a 20-16 hot strip mill to be installed in its plant at Leechburg and the electrical equipment contract for this mill has been given to the Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. It includes direct and alternating current motors, motor generator sets and control equipment to the approximate amount of \$200,000. It will take about five months to complete it.

Active Demand for Electric Furnaces.

The Electric Furnace Co., Salem, O., notes increased activity among railroads and in the railroad supply field as evidenced by sales of electric furnaces. A large western manufacturer of manganese steel castings for railroads has ordered a 250 KW car type Bailly annealing furnace for one of its plants on the Pacific Coast; it will heat 17 tons of manganese steel a day. The same corporation is now using a 360 KW furnace with hearth capacity of 20 tons of manganese castings daily. Another order calls for a 125 KW melting furnace for ferro manganese to be installed at the plant of the Pettibone-Mulliken Corporation, Chicago, and will be used for making hot additions to each charge for their Herroult electric steel furnaces. The Bailly unit will have a capacity of 1000 pounds of ferro manganese per hour. The Griffen Wheel Corporation has ordered a 75 KW melting furnace to be installed at Tacoma, Wash. It will be used for melting bronze for railway bearings and will have a hearth capacity of 1000 pounds. The Best Foundry Co., Bedford, O., a subsidiary of the American Stove Corporation, has contracted for a 50 KW., 500 pounds, melting furnace for melting its copper zinc alloys. The April issue of "Electric Furnace News" contains a number of other interesting items about these furnaces.

Removal of Office.

The principal business office of Harrington Brothers, lumber manufacturers, has been moved from Weldon, N. C., to Corinth, Miss.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

PROVIDING \$150,000 TO FINANCE A WAREHOUSE



Cathcart Storage Warehouse
Atlanta, Ga.

We have sold to our investors an issue of \$150,000 Miller First Mortgage Bonds to provide funds for the erection of the

Cathcart Storage Warehouse
Atlanta, Ga.

This structure will be the first fireproof building in Atlanta devoted exclusively to the storage of household goods. Mr. T. F. Cathcart, a director of the National Warehousemen's Association, is

President of the Cathcart Van & Storage Company, which has signed each bond and which will own and operate the Cathcart Storage Warehouse.

The building will be seven stories in height, containing a total of 55,000 square feet of floor space, of which 31,000 will be rentable.

Mr. Cathcart estimates the net annual earnings at about \$45,000. The total cost of the property is estimated at \$250,000. G. Lloyd Preacher & Co., Atlanta, designed the building, which will be constructed by Gude & Company of Atlanta. The contractors will furnish a 100% bond for completion of the building in the Fidelity & Deposit Company of Maryland.

The \$150,000 First Mortgage Bonds which we have underwritten run from 2 to 20 years and are sold at prices to yield 8%. Interest and principal will be met by monthly payments which the borrower will make out of earnings. A part of the bonds will be retired annually, beginning two years from the date of the loan.

This is an Example of Miller Financing

* * *

To builders and property owners who wish to erect warehouses or other income producing buildings, we offer our services as financiers of construction. Through the sale of Miller First Mortgage Bonds to thousands of investors throughout the country, we have provided funds for the erection of apartments, hotels, warehouses, and other income-producing structures in numerous cities. Letters from borrowers express satisfaction with our methods.

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Dairy Development in Virginia and its Significance to the State.

By A. B. THORNHILL, Commissioner, Dairy and Food Division, Richmond.

There are many things which have helped in bringing about a general development of the dairy industry in this State.

First, I consider the educational work which has been done to forward this work, and which has kept dairying constantly before the farmers of the State, as the most profitable and safest line of agriculture.

From many sources the great food value of milk, butter and cheese has been impressed on the public; not only their real food value but it is also becoming generally known that milk and milk products are the very cheapest foods that can be used.

The dairy cow is preeminently in a class by herself as a most economical producer of food, and we find her home chiefly among the nations who have forged ahead and made the greatest strides in civilization.

The Virginia State Dairy & Food Division has been instrumental in developing every phase of dairy work in the State. This department has a corps of competent men who devote their entire time in assisting and encouraging more and better dairying.

The Division furnishes plans and drawings for dairy barns, silos, milk houses, creamery buildings and cheese factories. They also send out a man further to assist in the proper location and erection of such buildings, and publish and send out bulletins on all important subjects pertaining to dairying.

Dairymen are assisted with their feeding propositions, dairy rations, etc., for greater and more economical production of milk.

The testing of milk for butter fat and the better selection and feeding of dairy cattle, also testing both milk and cream in checking up on milk dealers, creameries, etc., is important and much in demand.

Cow testing associations are doing a good work in developing greater production in the herds of the State. Their number is increasing and this department heartily encourages and assists in the work wherever possible.

The department is called on for advice in buying and installing dairy barn equipment and machinery for creameries. Considerable time is put in assisting new creameries from the drawing of their plans to the last touch on installing all machinery, cold storage, etc.

An expert butter-maker is on the field at all times and assists each plant to improve the quality of their butter, from grading the cream to turning out a finished, high-scoring product, which demands a better price on the market. Considerable amounts have been saved the creameries by this work.

The work of eradicating tuberculosis from the dairy herds of the State was undertaken by this Division some years ago, and by the liberal payment for reacting animals by the State and Federal Government, together with educational work from all sources centered to clean up the tuberculosis cattle, great results have been accomplished.

Today Virginia stands first among the states in the number of accredited herds, and her cattle are known to be among the cleanest in this respect of any in the country.

The educational work done to foster and promote the dairy industry in the State has been one of the greatest factors in its general and rapid development. However, allowing full credit to all sources, the status of Virginia agriculture, in fact in the entire South, demanded some change, which was keenly felt by the farmers themselves, and dairying fills this needed change as nothing else can; it is the one certain and sure crop. No tiller of the soil who has had to contend

with uncertain crop conditions, and the still more uncertain marketing conditions, who has gone into dairying will deny that the dairy cow is the salvation of the South.

With dairy cattle there is a pay day throughout the year, and the farmer who has a good bunch of dairy cows and handles them intelligently is in sight of independence. Take a bunch of dairy cattle as your canoe and with a pure bred bull of merit as your oar you can paddle your way to independence and prosperity.

To show what has already been done in Virginia, and the further dairy development necessary before home demand is supplied I give you the following figures:

Creamery butter 1910	235,000 lbs.
" " 1915	1,297,000 "
" " 1920	2,327,434 "

Besides, there was shipped into the State last year three and one half million pounds of cheese, and four million pounds of butter.

Alabama Power to Build New Transmission Line.

Birmingham, Ala., April 21—[Special.]—The Alabama Power Co. is to construct a high tension transmission line from its Coosa River development to Leeds, connecting there with the line from Jackson Shoals to this city. A sub-station will be used to step-down the high voltage for Birmingham use. This line will probably double the amount of electric power available to the district, which now receives current from three sources.

It will be of the most modern construction, and due to the rugged condition of the country through which it will pass, for about 40 miles length, will involve the expenditure of perhaps \$750,000 and give employment to many men for some time. The power company maintains a research staff and their experience will be available for any new work undertaken by the company in connection with the big improvements now being made.

NEW HOTEL FOR BEAUMONT, TEX.



Under construction for Beaumont Hotel Co.; 100x100 ft., 11 stories, and 100x210 ft., 2 stories; steel, reinforced concrete and brick; composition roof; marble, tile and cement floors; vacuum steam heat; 2 electric passenger elevators, 1 electric freight elevator, 1 hydraulic side lift, 1 electric dumb waiter and 1 hand power dumb waiter; Mann & Stern, Archts., Little Rock, C. S. Lambie & Co., Contrs., Denver; cost without mechanical equipment, \$650,000.